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## FOOD PRODUCTION IN THE GARDEN

# HENDERSON'S MIDSUMMER CATALOGUE 1919

*SELECTED SEEDS FOR SUMMER SOWING*

**PETER HENDERSON & CO., 35 & 37 Cortlandt St., NEW YORK**

## BUSINESS RULES, ETC.

FREE DELIVERY FOR CERTAIN QUANTITIES OF SEEDS.—WE DELIVER FREE IN THE UNITED STATES BY PARCEL POST OR EXPRESS TO ANY EXPRESS OFFICE, AT OUR OPTION, ALL VEGETABLE AND FLOWER SEEDS BY THE PACKET, OUNCE,  $\frac{1}{4}$  POUND AND POUND.

Purchasers pay transit charges on larger quantities of seeds, and other merchandise, unless otherwise provided. When goods are wanted by Parcel Post add postage, for those we do not deliver free (see Zone Rates on this page.)

For tools, and accessories, odorless fertilizers, insecticides and fungicides (fluids and poisons excluded)—we have given the packed Parcel Post weight so that extra for postage must be remitted according to Zone distances. In most instances the charge by freight and express on greater weights will be found more economical, hence we only give weights up to 10 lbs.

We make no charge for packing or cartage of goods to any railroad station, steamship line or express office in New York City.

WE MAKE NO CHARGE FOR PACKING, except special for foreign shipments, as tin-lined cases, double sacks, etc., then we charge cost. Cloth bags we charge for, viz.:  $\frac{1}{2}$  peck, 15c.; 1 peck, 25c.;  $\frac{1}{2}$  bushel, 35c.; 1 bushel, 45c.; 2 bushels, 70c. Burlap bags, 1 peck, 15c.;  $\frac{1}{2}$  bushel, 20c.; 1 bushel, 25c.; 2 bushels, 35c.; 4 bushels, 55c.; 6 bushels, 75c.; 8 bushels, 90c. No charge for bags with lawn grass mixtures.

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WE DO NOT SUPPLY DEALERS, therefore our Seeds, etc., can only be procured by sending orders direct to us.

THE PRICES QUOTED IN THIS CATALOGUE ARE NET—We offer no premiums, discounts nor gratuities. We reserve the right to advance prices without notice should current conditions require it.

PETER HENDERSON & Co. give no warranty express or implied, as to description, quality productiveness, or any other matter of any Seeds, Bulbs or Roots they send out and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

## HENDERSON'S

## Garden Guide and Record

IS SENT FREE

With every order amounting to \$2.00 or over.

HENDERSON'S GARDEN GUIDE AND RECORD treats concisely, but sufficiently about vegetable gardening in all its branches. It contains articles on the following subjects and others.

Preparing Garden Ground: Fertilizing, Draining, Cultivating.

Vegetable Planting Time Table: Distance, Depth to Sow, When Ready to Use, etc.

Vegetables for Winter Use: What to Grow and How to Store.

Hot Beds and Cold Frames: How to Make and Maintain.

Cold Frame Vegetables: What and How to Grow for Winter Use.

Insects and Plant Diseases: Latest Methods of Treatment and Remedies.

Fertilizing: A guide to what fertilizer and lime the land requires.

Canning Vegetables, etc.: Saving the Garden Surplus with Home Canners.

Culinary Herbs: Culture and Preparation. And much other valuable information.

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Weight in Pounds	Local	1st	2nd	3rd	4th	5th	6th	7th	8th
		Up to 50 miles from New York	50 to 150 miles from New York	150 to 300 miles from New York	300 to 600 miles from New York	600 to 1000 miles from New York	1000 to 1400 miles from New York	1400 to 1800 miles from New York	1800 to 2200 miles from New York
1	\$0.05	\$0.05	\$0.05	\$0.06	\$0.07	\$0.08	\$0.09	\$0.11	\$0.12
2	.06	.06	.06	.08	.11	.14	.17	.21	.24
3	.06	.07	.07	.10	.15	.20	.25	.31	.36
4	.07	.08	.08	.12	.19	.26	.33	.41	.48
5	.07	.09	.09	.14	.23	.32	.41	.51	.60
6	.08	.10	.10	.16	.27	.38	.49	.61	.72
7	.08	.11	.11	.18	.31	.44	.57	.71	.84
8	.09	.12	.12	.20	.35	.50	.65	.81	.96
9	.09	.13	.13	.22	.39	.56	.73	.91	1.08
10	.10	.14	.14	.24	.43	.62	.81	1.01	1.20
11	.10	.15	.15	.26	.47	.68	.89	1.11	1.32
12	.11	.16	.16	.28	.51	.74	.97	1.21	1.44
13	.11	.17	.17	.30	.55	.80	1.05	1.31	1.56
14	.12	.18	.18	.32	.59	.86	1.13	1.41	1.68
15	.12	.19	.19	.34	.63	.92	1.21	1.51	1.80
16	.13	.20	.20	.36	.67	.98	1.29	1.61	1.92
17	.13	.21	.21	.38	.71	1.04	1.37	1.71	2.04
18	.14	.22	.22	.40	.75	1.10	1.53	1.91	2.28
19	.14	.23	.23	.42	.79	1.16	1.65	2.01	2.40
20	.15	.24	.24	.44	.83	1.22	1.61	2.01	2.52
21	.15	.25	.25	.46	.87	1.28	1.69	2.11	2.54
22	.16	.26	.26	.48	.91	1.34	1.77	2.21	2.64
23	.16	.27	.27	.50	.95	1.40	1.85	2.31	2.76
24	.17	.28	.28	.52	.99	1.46	1.93	2.41	2.88
25	.17	.29	.29	.54	1.03	1.52	2.01	2.51	3.00
26	.18	.30	.30	.56	1.07	1.58	2.09	2.61	3.12
27	.18	.31	.31	.58	1.11	1.64	2.17	2.71	3.24
28	.19	.32	.32	.60	1.16	1.70	2.25	2.81	3.36
29	.19	.33	.33	.62	1.19	1.76	2.33	2.91	3.48
30	.20	.34	.34	.64	1.23	1.82	2.41	3.01	3.60
31	.20	.35	.35	.66	1.27	1.88	2.49	3.11	3.72
32	.21	.36	.36	.68	1.31	1.94	2.57	3.21	3.84
33	.21	.37	.37	.70	1.35	2.00	2.65	3.31	3.96
34	.22	.38	.38	.72	1.39	2.06	2.73	3.41	4.08
35	.22	.39	.39	.74	1.43	2.12	2.81	3.51	4.20
36	.23	.40	.40	.76	1.47	2.18	2.89	3.61	4.32
37	.23	.41	.41	.78	1.51	2.24	2.97	3.71	4.44
38	.24	.42	.42	.80	1.55	2.30	3.05	3.81	4.56
39	.24	.43	.43	.82	1.59	2.36	3.13	3.91	4.68
40	.25	.44	.44	.84	1.63	2.42	3.21	4.01	4.80
41	.25	.45	.45	.86	1.67	2.48	3.29	4.11	4.92
42	.26	.46	.46	.88	1.71	2.54	3.37	4.21	5.04
43	.26	.47	.47	.90	1.75	2.60	3.45	4.31	5.16
44	.27	.48	.48	.92	1.79	2.66	3.53	4.41	5.28
45	.27	.49	.49	.94	1.83	2.72	3.61	4.51	5.40
46	.28	.50	.50	.96	1.87	2.78	3.69	4.61	5.52
47	.28	.51	.51	.98	1.91	2.84	3.77	4.71	5.64
48	.29	.52	.52	1.00	1.95	2.90	3.85	4.81	5.76
49	.29	.53	.53	1.02	1.99	2.96	3.93	4.91	5.88
50	.30	.54	.54	1.04	2.03	3.02	4.01	5.01	6.00

## PARCEL POST WEIGHT LIMIT

The weight limit within the Local 1st, 2nd and 3rd Zones is seventy (70) pounds, within the other Zones the weight limit is fifty (50) pounds and the size limit eighty-four (84) inches for combined length and largest girth. In this catalogue we give the weight packed up to ten (10) pounds on Implements, Insecticides and Fertilizers.

Packages weighing 8 oz. or less can be forwarded anywhere in the U. S. at a cost of one cent for each two ounces, or fraction thereof.

# MIDSUMMER ORDER BLANK.

Parcel Post Zone  
from N.Y. City

PETER HENDERSON & CO., give no warranty, express or implied, as to description, quality, productiveness, or any other matter, of any Seeds, Bulbs, or Roots, they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

# PETER HENDERSON & CO., CORTLANDT ST., NEW YORK

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(Regarding Parcel Post *shipments* see page 2 of cover.)

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County.....; State.....

Station or Exp. Office.....

(Only if different from P. O.)

Superintendent or Gardener .....

(That we may enter his name for Catalogues.)

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Amount.

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Bills or Silver,  
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Draft or Check,  
Ex. Money Order,  
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R..... and .....

We Deliver Free in the U. S. by Parcel Post or to any Vegetable and Flower Seeds by the pkt., oz.\*

Express Office, at our option 1/4 pound and pound  
Purchasers Pay—or Allow—for transportation on Seeds in Bulk, Pints, Quarts, Half-Pucks, Pecks, Bushels, Barrels—

Also on Farm Seeds, Bulbs in quantity, Tools, Implements, Requisites, Fertilizers and Insecticides.  
When goods (that we do not offer to deliver free) are wanted by Parcel Post, postage must be added at the Zone rate on page 2 of cover.

QUANTITY	ARTICLES	PRICE

Amount carried forward,

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Route shipped by....., Date shipped..... 1919.  
In.....Pkgs.;.....Bundles;.....Boxes;.....Crates.....Baskets;.....Bbls.;.....Bags.  
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In.....Pkgs.;.....Bundles;.....Boxes;.....Crates.....Baskets;.....Bbls.;.....Bags  
The following articles will be sent later.

# HOW TO STORE VEGETABLES FOR WINTER USE.



CABBAGE OR CELERY MAY BE STORED IN TRENCHES

**"ROOT CROPS,"** including Beets, Turnips, Carrots, Rutabagas, Parsnips, Salsify and Winter Radish. These are all easy to keep in either cellar or pit and require more moisture than Potatoes. So they are best packed in sand, light soil or sphagnum moss moistened. They should be dug before severe frost. Cut off the tops to within an inch of the root, but leave the roots on. Parsnips and Salsify may also be left out where they grew and dug for use when the ground thaws out.

**BRUSSELS SPROUTS.** Pull the plants after frost, leaving roots on. Stand upright on soil in the outdoor cellar.

**CABBAGE** requires to be kept in moist cold. Pull the plants, leaving all leaves, stems and dirt on. Place close together, heads down in a trench 1 foot deep. Cover with 6 inches of straw and before freezing weather add 3 or 4 inches of soil, and before winter sets in increase the soil, covering to a foot in thickness. Cabbage may also be stored in the outdoor cellar, standing them upright, the roots on soil.

**CELERY** requires to be kept as cool as possible without freezing. For early winter use, it should be partially blanched in the garden; but for later winter use, it should be put away green. Store as late as possible, but before freezing. One method is to dig a trench as deep as the Celery is high and as narrow as possible to pack the Celery snugly in an upright position, roots on the soil. Cover with straw, hay or leaves, then add 6 to 8 inches of soil. In the outdoor cellar it is stood up with roots on moist soil. In the house cellar store the Celery in narrow boxes or barrels not quite the height of the plants. A few inches of damp soil or sand is placed in the bottom; pack the celery in upright with roots in contact with the sand; pack moderately tight to exclude the air so the Celery will not wilt. The moist sand at the roots will sustain it. The soil should be watered as often as needed to keep it from drying out—but water through holes about 8 inches apart bored through the boxes just above the soil or sand—do not wet the foliage or stalks. Thus packed and the boxes placed in a cool cellar, Celery will blanch and be fit to use in four to seven weeks, according to the variety.

**CUCUMBER, EGG PLANT and PEPPER.** Treat in same manner as Tomato.

**KALE.** Stands right out in the garden. Pull leaves as required. Frost improves the flavor.

**LEEK.** Store green; leave roots and leaves on; place close together, standing with roots on soil or sand in the outdoor cellar or trench, like Celery.

The old saying that "THE WAY TO HAVE IS TO KEEP," applies to vegetables and fruit as well as to money, and there is no doubt that good economy requires that everything grown beyond what is wanted for immediate use should be kept for consumption in winter time.

The best and easiest method of keeping vegetables is by storing in cool cellars or in pits or trenches in the open ground.

A low temperature, evenly maintained a little above freezing, and a ventilated, slightly moist atmosphere is the best for keeping most vegetables through the winter. There are, however, exceptions which are detailed below. When one has a ventilated cold cellar in the house, the cold-storage problem is simplified, but in many homes the heat from the furnaces renders it impossible to keep vegetables for any length of time, so that outside storage must be resorted to. The simplest outdoor storage is "pitting" the suitable vegetables. An excavation is made in the garden a foot or more in depth and size proportionate to the quantity of products to be stored. These are piled heaping full, forming a mound or cone over which straw or hay should be placed to a depth of 6 or 8 inches to protect from early frost. Just before freezing nights begin to throw an inch or two of soil over the straw and add a few more inches of soil before winter sets in hard. Vegetables keep splendidly when properly pitted, the only objection being they are difficult to get at in severe weather, and for this reason an outdoor cellar is preferable. This is made by digging an excavation about 2 feet in depth and of dimensions suited to the requirements and location. The sides of the excavation are kept in place by boards on edge, held in place by stakes; the upper edge of the boards should be a little higher than the level of the ground to permit the laying of boards to form a gable roof, the center resting on a ridged pole, held by posts 4 to 5 feet high, or the boards may be placed directly across without a ridge pole, making the roof flat. The board roof is sufficient protection until severe freezing weather, when hay, straw or leaves are thrown over the roof and a few inches of soil added. A door should be provided at one end, for convenience. On account of the amount of air contained in a cellar of this kind very uniform conditions are obtained. Not only may the hardy roots be stored in it, but also Celery, Cabbage, Brussels Sprouts, and Leek plants may be placed upright, roots on the ground, and will keep in prime condition.

**ONION.** Cool, dry air is best. When cured remove tops and store on slatted shelves or in trays in a cold airy, frost-proof loft or room. Damp air causes Onions to sprout.

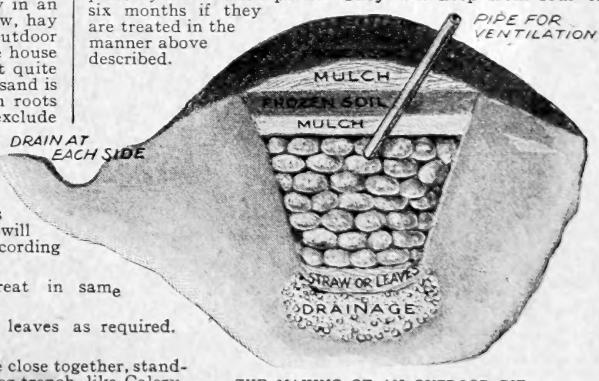
**POTATOES,** if dug in mild weather, are best left on the ground in a heap and covered with straw or hay to keep the sun off. Before freezing weather store in dry, cold cellar or pit.

**PUMPKIN, SQUASH and SWEET POTATOES** keep best in the dry atmosphere of a loft or room at about 45 degrees. If warmer they lose weight; if moist they rot. Gather before frost and leave the stems on.

**SPINACH, WINTER**, remaining in the garden should be covered, after the ground has lightly frozen, with straw or hay to a depth of about 6 inches to check successive freezing and thawing. **CORN SALAD** may be treated in the same way.

**TOMATO.** Large, unripened fruits are laid without touching each other on excelsior, hay or straw, to permit circulation of air about them. Place in the shade in room of moderate temperature and they will continue to ripen and color up, sometimes lasting until Christmas.

A well-known tomato grower, says that the best way of preserving Tomatoes for winter use is to place ripe and sound fruits in a stone crock and pour over them cold very strong brine. Cover the crock with a cotton cloth held in place by an inverted plate. They will keep from four to six months if they are treated in the manner above described.



THE MAKING OF AN OUTDOOR PIT

# THE IMPORTANCE OF JUNE, JULY AND AUGUST SOWN VEGETABLES.

The spring and summer of 1918 were marked by extraordinary activity in gardening work, due to the urgent appeals of our government, and the realization by amateur gardeners and plot owners that if victory was to be won there must be a vastly increased amount of food produced in the gardens of America.

The coming of peace will not bring plenty and this year there is still great need for increased **HOME PRODUCTION OF FOOD IN THE GARDEN** because every available ship is now engaged in carrying foodstuffs to Europe; and vegetable products are going to be both scarce and high in price.

We therefore wish to impress upon our friends the *importance*,—of *second* and even *third* plantings of vegetable seeds during the months of *June, July and August*, which is not as generally practiced among home gardeners as it should be.

## THE FACT IS, YOU CAN DOUBLE THE OUTPUT OF YOUR GARDEN AND RAISE A HOST OF GOOD THINGS FOR THE TABLE FROM NOW ONWARDS UNTIL FROST ENDS GARDEN OPERATIONS.

The possibilities of your garden have by no means been exhausted when you have raised one crop of vegetables, and many of the thriftiest gardens are planted after June 1st. Many varieties of vegetables yield larger crops from summer sown seed, than from spring sown seed, because the weather prevailing at the time the young plants attain any size is exactly suited to their requirements, and they are able to grow and complete their development without check. Keep on sowing rows of Beets until August, as they are always welcome on the table, and store well for winter.

Plant Bush Beans now and at other times up to August 15th and you will reap additional harvests of sweet, tender pods. Sow Sweet Corn every two weeks until July 15th. The early part of June is the time to sow Cabbage seeds for plants to set out for winter crop.

Now is the best time in all the year to sow seeds of root crops, such as Carrot, Beet, Turnip and Ruta Baga. Sow Ruta Baga in June and Carrot and Turnip in July. The young plants attain their true leaves when the weather is favorable to them, and grow right on without a check, consequently they are tender and palatable.

For your health's sake, do not omit to put in more rows of SPINACH, indispensable and necessary on every table. Sow up to September 15th. Victoria, Thick-Leaved and Long Standing are good varieties to plant as they are great heat resisters (*see back cover for illustrations.*) Don't waste any ground, but in odd corners sow radishes. Red Forcing Radish and Early White Tipped Scarlet Turnip Radish succeed well at this time. Put in more sowings of Lettuce up to Aug. 15th. Big Boston and Salamander are suitable varieties to sow in summer. Besides the kinds specially mentioned there are many other seeds which may be sown during the summer with every assurance of reaping bountiful crops and they are listed in the following pages of this catalogue. The varieties marked "early" should be chosen for late plantings, because they mature more quickly than the varieties designated as "late."

## LIST OF VEGETABLES ESPECIALLY SUITED FOR SOWING IN JUNE, JULY AND AUGUST

VARIETIES.	Dates up to which they may be sown.	VARIETIES.	Dates up to which they may be sown.
Beans Dwarf or Bush.	Every two weeks to Aug. 15th.	Kohl-Rabi.	July 15th.
Beets.	June to August 15th.	Lettuce.	August 15th.
Brussels Sprouts.	June (in seed bed).	Mustard.	Every two weeks until September.
Cabbage.	Early June.	Parsley.	Sow up to Aug. 1st.
Cauliflower.	Early June.	Peas.	July to August 15th.
Carrot.	Up to July 15th.	Pumpkin.	June.
Corn, sweet.	Every two weeks until July 15th.	Radish.	Every two weeks until September.
Cress, Garden.	Every two weeks until September.	" Winter.	August.
" Water.	August.	Ruta Baga.	June.
Cucumber.	July 15th.	Spinach.	July, August and September
Endive.	July to August 1st.	Swiss Chard.	Every four weeks until August 1st.
Kale.	June.	Turnip.	July 1st to August 1st.

Our Booklet, "GARDEN CULTURE OF ROOT CROPS," sent free if requested when ordering.



## MAKE YOUR GARDEN WORK FULL TIME

AND SUPPLY YOUR TABLE WITH FRESH VEGETABLES UNTIL FROST.

Above we show an illustration of the garden of Mr. J. H. Sloan of Jersey City, N. J., who supplies his family of six persons with an abundance of fresh vegetables from a plot 25 x 50 by making successive plantings up to September of **HENDERSON'S TESTED VEGETABLE SEEDS**.

*The secret of success with late plantings lies in sowing only early maturing varieties designated in our catalogue as "early", and then in thinning out the plants as soon as they show above ground—instead of transplanting—so that they receive no check in growth.*

In order to save our customers unnecessary trouble and to encourage extra plantings, we have selected an assortment of vegetables suitable for Summer and Fall sowing, and sure to produce results which we offer below—

### HENDERSON'S

### "SUMMER-SOWN" COLLECTION OF VEGETABLE SEEDS

COMPRISING 25 VARIETIES ESPECIALLY SUITED FOR SOWING THIS SUMMER AND FALL.

Price, \$2.00, delivered free. If purchased separately would cost \$2.30.

1	Packet. Beans, Henderson's Elst. Red Valentine . . . . .	10	Brought Forward . . . . .	\$1.45
1	" " Henderson's Refugee or 1,000 to 1 . . . . .	10		.10
1	" " Henderson's Unrivaled Wax . . . . .	15	1 " " Salamander . . . . .	.10
1	" " Hodson's Long Pod Wax . . . . .	15	1 " " Parsley, Double Curled . . . . .	.05
1	Beet, Henderson's Eclipse . . . . .	10	1 " " Peas, Alaska . . . . .	.10
1	" Detroit Dark Red . . . . .	10	1 " " " Amer . . . . .	.10
1	Carrot, Chantenay . . . . .	10	1 " " Radish, White Tipped Scarlet Turnip . . . . .	.05
1	Corn Salad . . . . .	05	1 " " " Red Forcing . . . . .	.05
1	Sweet Corn, Golden Bantam . . . . .	15	1 " " Spinach, Savoy Leaved . . . . .	.05
1	" Henderson's Astor . . . . .	15	1 " " " Thick Leaved . . . . .	.05
1	Endive, Green Curled . . . . .	10	1 " " " Victoria . . . . .	.10
1	Kale, Green Curled Scotch . . . . .	10	1 " " Swiss Chard . . . . .	.10
1	Kohl Rabi, Short-Leaved . . . . .	10	1 " " Turnip, Purple Top White Globe . . . . .	.05
			1 " " Ruta Baga Long Island Imp'd . . . . .	.05
			Carried Forward . . . . .	\$2.40

(Any of these packets may be ordered separately at prices given).

Delivered Free for \$2.00

With every Collection we will send **HENDERSON'S GARDEN GUIDE AND RECORD** described on page 2 of cover **Free** if asked for.

# HENDERSON'S TESTED VEGETABLE SEEDS.

## FOR SUMMER SOWING.

### Henderson's Black Valentine.

#### GREEN-PODDED BUSH BEAN.

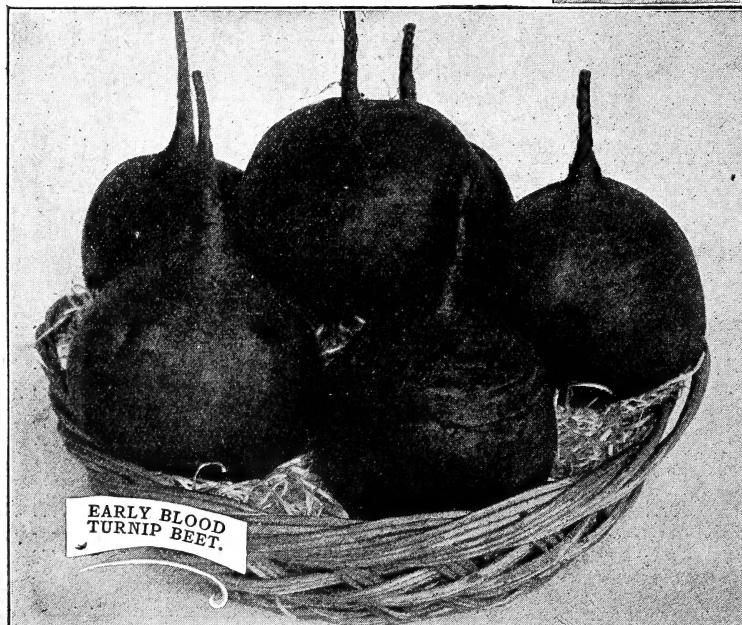
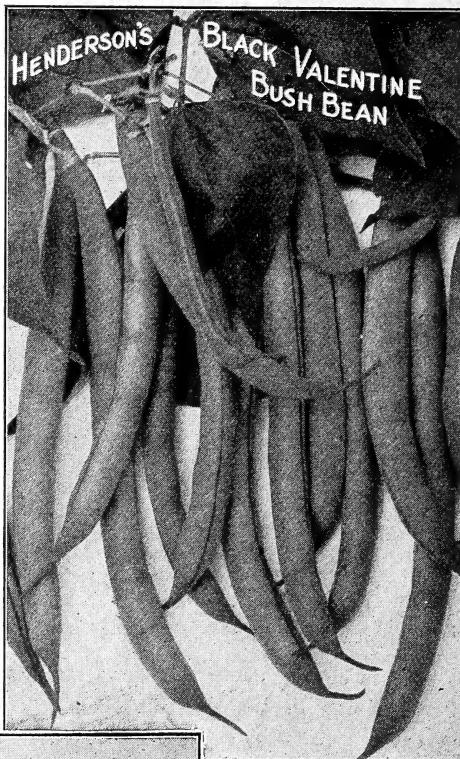
Possesses all the merits of our old favorite Red Valentine, and the pod is fully one-third longer. In addition it has other valuable points. The pods are extra long, round, straight and tender, and of a beautiful soft green color. It is also equally early, but has another advantage in that it is more suitable for late planting. In a test of the Extra Early Refugee, Henderson's Earliest Red Valentine and Black Valentine, conducted in the fall, we found that Black Valentine was fully as useful as Extra Early Refugee, being equally as hardy in every respect as the Refugee, while the beans were produced in enormous quantities. For any purpose, or at any time of the year, the bean will be found exceedingly valuable to all classes of growers. (See engraving.) Price, 10c. pkt., 35c. pt., 65c. qt., \$2.40 for 4 qts.

*"I claim that Henderson's Black Valentine Bean is the champion of all the dwarf green-podded snap beans, for I have tested all the good varieties. The Black Valentine is the best for both early and late planting and will stand wet, cold weather. It is of the finest quality, easy to pick, and is the most productive bean on the market today, but they must be gathered at the right time."*

S. E. THURSTON, New Canaan, Conn.

### Detroit Dark Red Beet.

Probably the best of the larger sorts. It succeeds equally well at all seasons, and is one of the best to sow in early spring, to succeed the extra early and medium crop sorts. It may be sown about August 1st (in this vicinity) for a crop to store for winter. The flesh is solid, always tender, of good flavor and excellent color. Price, 10c. pkt., 20c. oz., 60c.  $\frac{1}{4}$  lb., \$2.00 lb.



### HENDERSON'S Early Blood Turnip Beet.

This is a great improvement upon the old standard variety, Early Blood Turnip Beet. It is a great favorite with many gardeners and is very attractive in appearance, the roots being smooth and uniform, and the color deep blood red. The flesh is tender and sweet, and it is an excellent variety for canning.

This variety should be sown for a late crop on account of its quickness in maturing. For winter storage it is unexcelled. (See engraving.)

Price, 10c. pkt., 20c. oz., 60c.  $\frac{1}{4}$  lb., \$2.00 lb.

## HENDERSON'S SELECTED Half Long Danvers Carrot.

A handsome, stump-rooted Carrot of a rich, dark orange color. It grows to a large size; is smooth, and the flesh very close in texture with very little core. It is a first-class Carrot for all soils and has yielded 25 to 30 tons per acre, with the smallest length of root of any now grown. It is excellent to store for winter. (See engraving).

Price, 10c. pkt., 20c. oz., 50c.  $\frac{1}{4}$  lb., \$1.50 lb.



## HENDERSON'S Big Boston Lettuce.

**Big, Compact, Tender and Crisp, Creamy-White Heads.**

This grand variety, introduced into cultivation by us, is now more extensively grown than any other kind of Lettuce, whether grown in the open ground for early summer and fall use, in frames for spring, or forced cool in greenhouses for winter. It gives both grower and consumer the utmost satisfaction, producing, under ordinarily favorable conditions, splendid, large, creamy-white heads, packed with thoroughly blanched leaves, crisp, tender and sweet, delighting both the palate and the eye. Big Boston is one of the best large-heading Lettuces, and, while it succeeds at all seasons, except during the very hottest months, it is peculiarly adapted for late fall culture. Large areas of it may be seen in the vicinity of New York as late as Nov. 15th; a slight covering of salt marsh hay amply protecting the plants from hard frosts, which when cut for market are as fresh, bright and untinged as at any season. (See engraving).

Price, 10c. pkt., 20c. oz., 60c.  $\frac{1}{4}$  lb., \$2.00 lb.



### Henderson's Thick Leaved Spinach.

The best sort for fall sowing to winter over for spring cutting, being very hardy. It produces large, thick, bright green crumpled leaves of fine quality, yielding a heavy crop. It is slow to run to seed and stands the heat well. Price, 5c. pkt., 15c. oz., 45c.  $\frac{1}{4}$  lb., \$1.50 b.

### Henderson's Long Standing Spinach.

An excellent, compact variety, with thick fleshy dark green leaves. Price, 5c. pkt., 15c. oz., 45c.  $\frac{1}{4}$  lb., \$1.50 lb.

### Norfolk Savoy-Leaved Spinach.

A popular variety to sow for the late fall cutting. It is quick growing and produces large, dark green leaves as deeply crumpled as a Savoy Cabbage. It is grown in the South for winter and early spring crops. Price, 5c. pkt., 15c. oz., 45c.  $\frac{1}{4}$  lb., \$1.50 lb.

### Victoria Spinach.

Stands in prime condition long after other varieties have bolted to seed. Sown in September and slightly protected, it gives full supplies in spring. (See engraving.) Price, 5c. pkt., 15c. oz., 45c.  $\frac{1}{4}$  lb., \$1.50 lb.

## HENDERSON'S SELECTED DANVERS CARROT FOR FALL AND WINTER CROPS

Spinach is indispensable and necessary on every table, and should be sown at all seasons so that full supplies may be had. Besides the usual spring sowings a sowing for fall use may be made in July of Long Standing or Thick-Leaved varieties, both excellent summer varieties. The August and September sowings should receive special attention as they are wanted to supply the table during the coming winter and early next spring. For this purpose sow Victoria. The soil should be well prepared using soot and lime or other material to lighten the soil if heavy. Plenty of space should be given the plants and the rows should be 15 inches apart. In cold sections it is better to sow earlier so as to get a strong plant for the winter. Protect plants with dry litter &c. during severe weather. All spinach seed is benefited by being soaked in water for a few hours previous to sowing, as the seed then germinates more quickly and the growth is stronger.

See illustration on back cover.



VICTORIA SPINACH.

For other varieties of Spinach and illustrations, see page 10 and back cover.

## Henderson's Superior Mushroom Spawn.

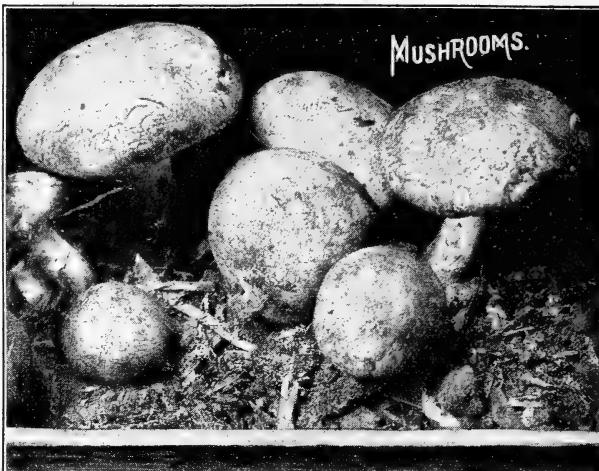
Mushrooms may be grown by anyone having a supply of fresh horse manure and a shed or cellar or a space under a greenhouse bench where a temperature of 50 to 60 degrees is evenly maintained. They make a most profitable crop when successfully grown, and our superior Spawn, has given splendid results. It is sold in bricks weighing about  $1\frac{1}{4}$  pounds, enough when broken into two inch pieces to "spawn" a bed of about 9 square feet.

### American "Pure Culture" Mushroom Spawn.

It is now possible to reproduce mushrooms for individual specimens, applying the same principles as used in the selection of other plants. The Spawn we offer is grown from spores taken from specimens of good form and may be relied on to produce a similar crop. It is sold in flat bricks about  $1\frac{1}{2}$  inches thick. One brick may be broken into two inch pieces and placed 12 inches apart, to spawn an area of nine square feet. (See engraving). Price per brick 30c., 10 bricks for \$2.75, 100 bricks for \$25.00. Purchaser paying carriage.

*"I purchased American Pure Culture Mushroom from you on March 1st, and picked the mushrooms in the above photo on May 24th. I had some that weighed over 1 lb. each. Yesterday, the 5th of June, I picked a mess, and there are fully 100 buttons on the bed now. All this from a bed in the cellar, size 2 x 8 feet.*

J. A. COOK, Marshalltown, Iowa.



### Purple Top White Globe Turnip.

This is a large, globe-shaped variety, white flesh, fine grained, tender and sweet. It grows smooth, has a small root, and medium sized tops. It is a true table Turnip and one of the best for winter storage being extensively grown and pitted for fall and winter, as it is a good keeper. The best crops of turnips are grown from summer sown seed. Sow 1 oz. for 100 feet of drill,  $1\frac{1}{2}$  to 2 pounds in drills per acre. (See engraving).

Price, 5c. pkt., 20c. oz., 70c.  $\frac{1}{4}$  lb., \$2.50 lb.

### HENDERSON'S FOR SELECTED Ruta Bagas TABLE USE

Sow 1 oz. for 100 feet of drill, 2 or 3 lbs. per acre in drills.

### Henderson's Long Island Improved Ruta Baga.

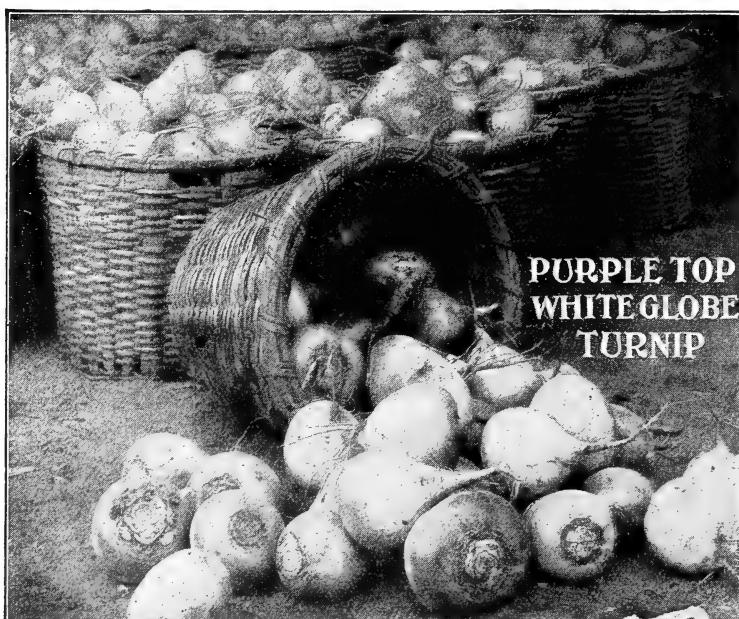
It is very large, has no neck, and is a remarkably good keeper; the flesh is rich yellow, of fine quality. Price, 5c. pkt., 20c. oz., 60c.  $\frac{1}{4}$  lb., \$2.00 lb.

### Improved American Purple Top Ruta Baga.

Considered the standard American Ruta Baga by the best posted farmers. Very popular, both for stock feeding and home consumption. The flesh is yellow, it is hardy, productive and a good keeper.

Price, 5c. pkt., 20c. oz., 60c.  $\frac{1}{4}$  lb., \$2.00 lb.

THE HOME GARDENER should pay special attention to root crops on account of their keeping qualities. Our booklet "Garden Culture of Root Crops" sent free if requested when ordering.



### PURPLE TOP WHITE GLOBE TURNIP

## HENDERSON'S

## TESTED VEGETABLE SEEDS FOR SUMMER SOWING.

Vegetable seeds of all kinds purchased in packets, ounces, quarter pounds and pounds are mailed free. Purchaser pays transportation on Beans, Peas and Corn by the pint and over. Postal weight 1 lb. per pint.

*Weight limit.*—The weight limit within the 1st 2nd and 3rd Zones is now seventy (70) pounds, within the other Zones the weight limit is fifty (50) pounds and the size limit eighty-four (84) inches for combined length and largest girth.

**IMPORTANT.**—In remitting postage always add it to the foot of the order as a separate item—this will help to avoid mistakes. Your local postmaster will inform you what Zone you are in from New York City, if you are in doubt, and you can add for postage accordingly.

## BEANS. (1 quart to 100 feet of drill, 1 bushel per acre in drills)

## PRICES

Beans (except packets) are not delivered free. For Parcel Post Zone Rate see page 2 of cover. Postal weight 1 lb. per pt.)

## DWARF or BUSH, GREEN PODDED.

Pkt. Pt. Qt. 4 Qts.

**Bountiful, Henderson's.** A prolific and continuous bearer, the first in spring and the last in fall. 10 35 65 2.40

**Black Valentine.** A heavy yielder. Ready for picking in 45 days after planting. Stringless and the best round green podded bean in existence. (See also page 4). 10 35 65 2.40

**Dwarf Horticultural.** A bush variety of the popular Climbing Horticultural. A grand shell bean 10 35 65 2.40

**Early Warwick.** Medium early. The pods are stringless until maturity; fine for a shell bean. 10 35 65 2.40

**Earliest Red Valentine, Henderson's.** Very early and remains fit for use for a long time. 10 35 65 2.40

**Refugee or 1,000 to 1.** The most popular bean for a late crop. Does remarkably well in the fall. (See engraving). 10 35 65 2.40

## BEANS. DWARF WAX-PODDED or "BUTTER"

**Curries Rust-Proof Wax.** The earliest, hardest and the most prolific of the flat wax-pod Beans, color golden yellow, pods long and straight. 15 40 70 2.60

**Hodson Long Pod Wax.** Creamy yellow Wax bush Beans, one of the best for a main crop. 15 40 70 2.60

Delivered free in the U. S. (excepting otherwise noted.)

**BEET. (1 oz. to 50 feet of drill; 5 lbs per acre in drills.)** Pkt. Oz.  $\frac{1}{4}$  lb. Lb.

**Detroit Dark Red.** Best for summer sowing, and for winter use. (See engraving and page 4). 10 20 60 2.00

**Dewing's Improved Blood Turnip.** Handsome, smooth and round. 5 15 50 1.50

**Early Blood, Henderson's.** A great improvement on the standard variety. (See also page 4). 10 20 60 2.00

**Edmand's.** A handsome, round, uniform, turnip-shaped Beet, very smooth and of good size; tops small, flesh red and of excellent quality; fine for late crop. 5 15 50 1.50

**Half Long, Henderson's.** Free from woody fibre. 10 20 60 2.00

**Long Smooth Blood-Red.** An excellent late variety. 5 15 50 1.50

**CABBAGE. (1 oz. produces 2,000 plants;  $\frac{1}{2}$  lb. to transplant for an acre.)**

**Autumn King, Henderson's.** Enormous Solid Heads often 12 to 15 lbs. each. It has such small outer leaves that it can be planted closer than the ordinary late sorts. A distinct feature of the Autumn King is the peculiarly crimped leaves, which enables it to be distinguished anywhere. 10 90 3.25 12.00

**Charleston Wakefield, Henderson's.** A larger variety of Early Jersey Wakefield but not as early as the original stock. The pointed-head Cabbages are preferable to the larger flat kinds. 10 90 3.25 12.00

**Early Jersey Wakefield, Henderson's Original.** The best First-Early Pointed-Head cabbage. This Cabbage, though introduced years ago by the late Peter Henderson, still holds its undisputed lead as the best extra-early pointed-head Cabbage, and is more largely grown than all other first-early Cabbages combined. 10 90 3.25 12.00

**Early Spring, Henderson's.** Earliest flat headed cabbage; produces excellent heads early in the season. 10 90 3.25 12.00

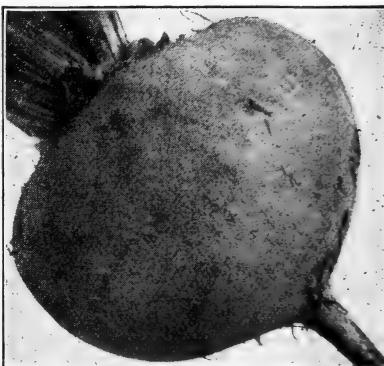
**Early Summer, Henderson's.** The standard. It is fit for use right after the extra early sorts. It forms large solid flat heads weighing 8 to 10 lbs. each. (See engraving). 10 90 3.25 12.00

**Succession, Henderson's.** Best for general use. The heads are enormous in size, extremely solid, and it grows well at any season. 10 90 3.25 12.00

**Late Flat Dutch, Henderson's Selected.** A well known variety; forms large solid heads, and winters well. 10 90 3.25 12.00



REFUGEE OR 1000 TO 1 BEAN.

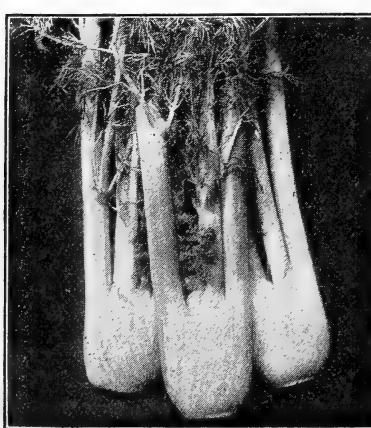
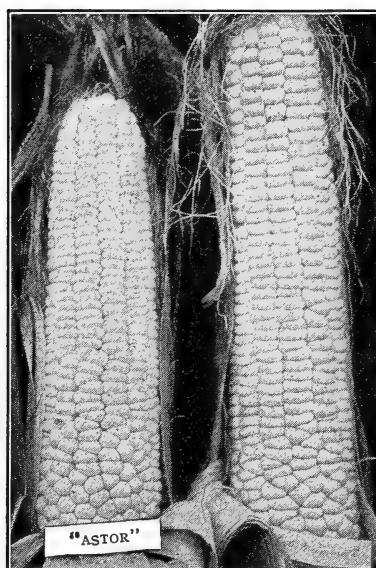


DETROIT DARK RED BEET.



HENDERSON'S EARLY SUMMER CABBAGE.

## HENDERSON'S TESTED VEGETABLE SEEDS FOR SUMMER SOWING.



		PRICES
CABBAGE (Continued).	sent free if requested.	Delivered free in the U. S. (excepting otherwise noted.)
Premium Flat Dutch.	A Standard and excellent, Pkt. Oz. $\frac{1}{4}$ Lb. Lb. variety, developing earlier than most late sorts but not so good a winter keeper. For fall use it is tender and of superior flavor.....	10 90 3.25 12.00
CHINESE CABBAGE or PE-TSAI.		
This is quite distinct from ordinary cabbage; and somewhat resembles Cos Lettuce; in fact it is called by some "Celery Lettuce." Culture same as late Cabbage. Sow seed early in July .....	10 50 1.75	
CARROT. (1 oz. for about 125 feet of drill; 4 lbs. for an acre.)		
Chantenay Half Long Scarlet. Blunt rooted, tender and free from core. (See engraving).....	10 20 50 1.50	
Danvers, Half-Long. (Henderson's Selected) (See also page 5).....	10 20 50 1.50	
Early Scarlet Horn. A popular variety. When pulled young it is excellent for soups.....	05 20 50 1.50	
Half-Long Red, Stump-Rooted. Best for summer.....	05 20 50 1.50	
CORN, SWEET or SUGAR.	Corn (except packets) is not delivered free, (1 qt. for 200 hills 8 to 10 qts. in hills for an acre.) See Parcel Post Zone Rates on page 2	of cover. Postal weight 1 lb. per pint.
Henderson's "Astor" Sweet Corn.	Briefly, this is a smaller and earlier strain of White Cos Cory. The plant is from 4 to 5 feet high; sturdy in habit and bearing two ears set 18 inches from the ground. These have from eight to twelve rows of creamy-white grains, arranged in rows so compactly set together that there is no space between. (See engraving).....	Pkt. Pt. Qt. 4 Qts.
Pocahontas.	Early sweet flavored.....	10 35 60 2.25
Crosby's Early.	A second-early; ears 7 inches long; fine quality.....	10 35 60 2.25
The "Henderson."	The best second early. It produces uniformly large, thick ears, compactly filled from butt to tip with long, milky white kernels of luscious tenderness. (See engraving).....	10 35 60 2.25
Stowell's Evergreen.	The ears are of a large size, grains deep, exceptionally tender and sugary, and have the advantage of remaining longer in the green state than any other.....	10 35 60 2.25
CORN SALAD.	Delivered free in the U. S. (excepting otherwise noted.)	Pkt. Oz. $\frac{1}{4}$ Lb. Lb.
Large-Leaved, Fetticus, or "Lamb's Lettuce."	Grown for the late fall, winter and spring use....	5 20 60 2.00
CRESS, or PEPPER GRASS.		
Extra Curled.	Crisp, pungent leaves.....	5 15 50 1.50
CUCUMBER.		
(1 oz. for 60 hills; 2 to 3 lbs. in hills for an acre.)		
Cool and Crisp, Henderson's.	Extra early.....	10 20 70 2.50
Early Cluster.	An early, short green variety.....	5 20 60 2.00
Early White Spine.	Popular for family use.....	5 20 50 1.50
Green Prolific.	Short green, pickling variety .....	5 20 50 1.50
Everbearing.	Bears fruit until frost.....	5 20 60 2.00
Extra Early Green Prolific.	Ideal for pickling.....	5 20 70 2.00
The "Henderson" White Spine.	The standard extra early, prolific, best for slicing.....	10 20 60 2.00
West India Gherkin.	Used for pickles.....	10 20 70 2.50
Livingston's Evergreen.	Wonderfully prolific.....	5 20 50 1.50
ENDIVE. (1 oz. for 100 feet of drill.)	"Escarole" and "Chicoree."	
"Escarole" and "Chicoree."	One of the best salads, especially when blanched; if boiled makes fine "greens."	
Broad-Leaved Batavian.	Has large, thick, broad leaves; and forms large hearts.....	10 30 85 3.00
French Moss Curled.	A compact-growing variety.....	10 50
Green Curled.	Best for general use.....	10 30 85 3.00
White Curled.	Finely cut leaves, almost white; can be used without blanching.....	10 50
Finocchio, or Florence Fennel.	A delicious vegetable which should be largely grown. It is extensively used in Italy as a salad, and also may be served boiled. When the leaf stalk, at base of stem, is about the size of a hen's egg it should be earthed up so as to cover half of it, and in about ten days cutting may be commenced and continued as the plants increase in growth. The flavor is somewhat like celery, with a sweet taste and delicate odor. (See engraving).....	5 20 60
KALE, or BORECOLE. (1 oz. for 150 feet of drill.)	Largely grown for supplying "greens" during the fall, winter and spring; used small, like Spinach; frost improves the quality.	
Dwarf Green Curled Scotch.	Sow during June, and transplant for use in fall.....	5 35 1.20 4.00
Siberian.	Green curly leaves; tender and of delicate flavor.....	5 35 1.20 4.00

OUR LEAFLET "THE CULTIVATION OF SWEET CORN" SENT FREE IF ASKED FOR.

# HENDERSON'S TESTED VEGETABLE SEEDS FOR SUMMER SOWING.

## FOR SUMMER SOWING.

	(excepting ones in bold type)			
	Pkt.	Oz.	1/2 Lb.	Lb.
<b>LETTUCE.</b> (1 oz. for 3000 plants.)				
<b>Big Boston, Henderson's.</b> The best head lettuce on earth. (See also page 5).....	10	20	60	2.00
<b>Boston Market, or White-Seeded Tennis Ball.</b> A popular, early, small, compact-heading variety.	5	20	60	2.00
<b>Golden Queen, Henderson's.</b> A very desirable first-early variety, and second to none for forcing.....	10	20	60	2.00
<b>Mammoth Black-Seeded Butter.</b> Similar to, but larger than Black-Seeded Butter, enormous heads tender, sweet and crisp.....	10	20	60	2.00
<b>New York, Henderson's.</b> Immense heads as solid as a cabbage. (See engraving).....	10	30	75	2.50
<b>Black-Seeded Simpson.</b> It stands the summer heat splendidly, and is practically everbearing.	10	20	60	2.00
<b>Early Curled Simpson.</b> Earlier than head Lettuces; grown in cold frames and the open ground.....	5	20	60	2.00
<b>Grand Rapids.</b> Beautifully crumpled and curled. (See engraving).....	10	30	1.00	3.50
<b>Trianon Cos.</b> Self-folding inner leaves are self-blanching.....	10	20	60	2.00
	Purchaser pays transportation on Mushroom Spawn			
	1	10	100	
	brick	bricks	bricks	
<b>MUSHROOM SPAWN.</b> (See also page 6)	1	10	100	



HENDERSON'S NEW YORK LETTUCE

	1	10	100
<b>MUSHROOM SPAWN.</b> (See also page 6)		brick	bricks
American Pure Culture.	This is sold in flat bricks	bricks	bricks
1½ inches thick, weighing about 1½ pounds.			
One brick may be broken into nine pieces which			
set 12 in. apart will spawn an area of 9 square feet	30	2.75	25.00
<b>ONION.</b> (1 oz. for 100 feet of drill; 5 to 6 lbs. in Pkt. Oz. $\frac{1}{4}$ Lb. Lb.			
drills for an acre.)			
<b>Crystal White Wax.</b> A greatly improved type of			
white Bermuda.....	35	1.25	4.50
<b>Bermuda, Red.</b> Flat light red-skinned Onions			
of mild flavor.....	10	35	1.20
<b>Bermuda, White.</b> Flat, grows very quickly			
exceedingly mild in flavor.....	10	35	1.20
<b>White Portugal or Silver Skin.</b> This is beyond			
doubt the very best Onion for general use during			
the spring, summer and autumn.....	10	35	1.30
<b>PARSLEY.</b> (1 oz. for 150 feet of drill.)			
Champion Moss Curled. Densely crimped and			
curled, dark green leaves.....	5	15	40
Emerald Henderson's. Finely cut mossy leaves.	10	25	80
Extra Double Curled. A popular fine dwarf,			
beautifully curled sort.....	5	15	35
<b>PEAS.</b> (1 quart to 100 feet of drill; 2			
to 3 bushels for an acre.)	peas (except in packets) are not de-		
	livered free. For Postal Zone Rates		
	see page 2 of cover. Postal weight 1 lb. per pint.		
	Pkt.	Pt.	Qt. 4 Ozs. Pk.



### GRAND RAPIDS LETTUCE

	Pkt.	Pt.	Qt.	4 Qts.	Pk.
<b>Alaska</b> Height, 2 ft. A wonderfully early, smooth, blue Pea; pods are filled with smooth blue-green Peas. ( <i>See engraving</i> )	10	35	60	2.30	4.50
<b>First of All, Henderson's.</b> Height, 2½ feet. One of the earliest peas grown.....	15	45	80	3.00	5.50
<b>Prosperity, Henderson's.</b> Height 2½ feet. The quickest growing wrinkled pea.....	15	45	80	3.00	5.50
<b>The Amer.</b> ( <i>or "Mammoth Alaska" Pea</i> ). This early variety—often called the "Mammoth Alaska" is rapidly growing in favor. It resembles Alaska, the vine being more vigorous, a little taller or about 3 feet in height and the pods and peas are fully one-third larger. It is a heavy producer of handsome dark green pods containing from 5 to 7 large blue-green round peas of excellent quality. The crop ripens about three days later than Alaska.....	10	35	60	2.30	4.50

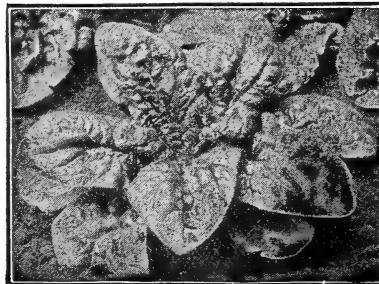


ALASKA PEA

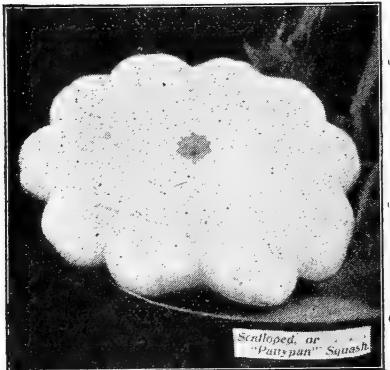
## HENDERSON'S TESTED VEGETABLE SEEDS FOR SUMMER SOWING



WHITE SUMMER TURNIP RADISH.



VICTORIA SPINACH.



Scalloped, or "Patty pan" Squash.



SWISS CHARD.

## RADISH (Continued).

	Delivered free in the U. S. (excepting otherwise noted.)			
	Pkt.	Oz.	1/4 Lb.	Lb.
Scarlet Olive-Shaped. An oval-shaped variety, maturing in 25 days; flesh-white, crisp and mild.....	5	15	45	1.50
Long Scarlet Short Top. White mild flesh; grows 6 inches in length; matures in 25 days.....	5	15	45	1.50
Long White Vienna, or Lady Finger. Tapering shape, about four inches long, mild and tender; matures in about 25 days.....	5	15	45	1.50
White Summer Turnip. A flat-round, early summer Radish 2 inches in diameter; white and tender; ready to use in 30 days. (See engraving)	5	15	45	1.50
Chartier. A summer Radish, long and handsome top crimson fading to white at tip.....	5	15	45	1.50
Celestial, or White Chinese. Grows to an enormous size; flesh firm, mild and crisp.....	10	20	60	2.00
Half-Long Black Spanish. Flesh-white, compact and the mildest flavored of this type; good keeper.....	5	15	45	1.50

## RUTA BAGAS. For Table Use. (See also page 6). Sow 1 oz. for 100 feet of drill, 2 or 3 lbs. per acre in drills.

Henderson's Long Island Improved Ruta Bagas.	5	20	60	2.00
It is very large, has no neck, and is a remarkably good keeper, the flesh is rich yellow, and of fine quality.....	5	20	60	2.00
Improved American Purple Top. Considered the standard American Ruta Bagas by most growers. Very popular both for stock or table use.....	5	20	60	2.00

## SPINACH. (1 oz. for 100 feet of drill; 10 to 12 lbs. in drills for an acre.) Varieties marked \* may be sown in the fall in latitude of New York for spring crop.)

Long Season, Henderson's. Very slow in running to seed.....	5	15	45	1.50
Long Standing. An excellent, compact variety; thick, fleshy, dark green leaves.....	5	15	45	1.50
Norfolk, Savoy-Leaved. The best for early fall.	5	15	45	1.50
Round-Leaved or Dutch. A standard variety...	5	15	45	1.50
*Thick-Leaved, Henderson's. Produces large, thick crumpled leaves of fine quality.....	5	15	45	1.50
Victoria. Stands in prime condition long after other varieties have bolted to seed.....	5	15	45	1.50
*Viroflay, Large Round-Leaved. Very hardy...	5	15	45	1.50

## SQUASH. Summer Varieties.

(Bush varieties, 1 oz. for 50 hills; 5 to 6 lbs. per acre.)				
Vegetable Marrow Bush. An English variety, oblong, yellow fruits 10 to 15 inches in length; flesh, tender, marrowy and delicious.....	10	25	85	3.00
White Bush Scalloped. The white "Patty Pan"; free cropper. (See engraving.).....	5	20	60	2.00
Yellow Bush Summer Crookneck. A bush variety, early and prolific; densely warty.....	5	15	45	1.50

## SWISS CHARD. The "cut and come again" vegetable. (See engraving).....

10	20	60	2.00
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## TURNIP. (1 oz. for 150 feet of drill or 2 lbs. in drills per acre.)

Early Purple Top Milan. The earliest Turnip in cultivation.....	10	25	85	3.00
Early Red Top Strap Leaf. A popular variety of quick growth; flesh white and of excellent quality.....	5	20	60	2.00
Early White Flat Dutch. An excellent early, white, flat Turnip; flesh mild.....	5	20	60	2.00
Long White, or Cowhorn. A long, white-fleshed Turnip growing half above ground; it is of fine quality.....	5	20	60	2.00
White Egg. An oval or egg-shaped variety, with smooth, thin, white skin and snowy-white flesh; firm, mild and sweet.....	5	20	60	2.00
Purple Top White Globe. A large globe-shaped variety; white flesh, fine-grained, tender and sweet. (See also page 6).....	5	20	70	2.50
Purple Top Yellow Aberdeen. A large, globe-shaped Turnip, with yellow flesh of fine quality; a good keeper; popular for table or stock.....	5	20	60	2.00

Our Leaflet "GARDEN CULTURE OF ROOT CROPS" sent free if asked for.

A SELECTED  
LIST OF

## FARM SEEDS

FOR SUMMER  
SOWING

Prices of Farm Seeds are subject to change without notice.

Purchaser pays transportation on Farm Seeds. If wanted by Parcel Post add postage according to Zone rates on page 2 of cover.

## MANGEL WURZEL and SUGAR BEETS.

The best soil for Mangels is friable loam deeply plowed and in such soil the yield is from 20 to 30 tons per acre. The ground should be well enriched and the seed sown in drills 24 inches apart in light soil, and 30 inches apart in strong rich land. Thin out the plants to 9 inches apart in the former and 12 inches apart in the latter. Sow 6 to 8 pounds of seed per acre if sown with a drill, or double that quantity if sown by hand.

**Colossal Long Red** (Henderson's). A valuable improved and distinct variety. Extra large, long roots; very nutritious. Price,  $\frac{1}{4}$  lb., 50c.; lb., \$1.50; 10 lbs., at \$1.40 lb.

**Champion Yellow Globe** (Henderson's). Smooth large, round roots; yellow flesh. Price,  $\frac{1}{4}$  lb., 50c.; lb., \$1.50; 10 lbs., at \$1.40 lb.

**Giant Intermediate** (Henderson's). Big yielder; handsome, large ovoid roots. Price,  $\frac{1}{4}$  lb., 50c.; lb., \$1.50; 10 lbs., at \$1.40 lb.

**Golden Tankard**. Flesh yellow, thus differing from other varieties; sheep prefer it; heavy yielder. Price,  $\frac{1}{4}$  lb., 50c.; lb., \$1.50; 10 lbs. at \$1.40 lb.

**Long Red.** Largely grown; large roots of excellent quality. Price,  $\frac{1}{4}$  lb., 50c.; lb., \$1.40; 10 lbs. at \$1.40 lb.

**Long Yellow.** Differs from the Long Red only in color. Price,  $\frac{1}{4}$  lb., 50c.; lb., \$1.50; 10 lbs., at \$1.40 lb.

## NEW HALF SUGAR MANGEL.

As seed of the different varieties of sugar beet is almost unprocureable this season, we would recommend planting for stock feeding the improved breed of New Sugar Mangel offered below.

This is distinctly a new variety of Mangel, and is the result of careful interbreeding between White Sugar Beet and Colossal Long Red Mangel. It certainly approaches nearer to a Sugar Beet than any other known variety of Mangel, and by analysis it has been shown that it is very rich in saccharine matter. Its growth is very rapid, so that it matures much more quickly than other varieties, and on that account it may be sown at a later date. The bulb is very uniform, of good shape, and has a single taproot. When singling it may be left much more closer in the rows, than larger growing Mangels, and it will yield remarkably heavy crops.

**Half Sugar Red**, per  $\frac{1}{4}$  lb., 50c.; lb., \$1.50; 10 lbs., \$1.40 lb. **Half Sugar White**, per  $\frac{1}{4}$  lb., 50c.; lb., \$1.50; 10 lbs., \$1.40 lb.

## RUTA BAGA, RUSSIAN OR SWEDISH TURNIPS.

The Ruta Baga is important for stock feeding purposes and can be sown quite late. It grows very rapidly and yields from 25 to 35 tons per acre, in good rich deep soil, with proper cultivation. The Ruta Baga proper should be sown in this latitude from May 25 to June 25. If sown then, it should be in rows, 30 inches apart, and the plants thinned with hoe to 12 or 14 inches apart, but if sown a month later, the distances between the rows and between the plants may be 8 inches. Sow 2 or 3 lbs. per acre.

**Long Island Improved Purple-Top.** It is perfectly hardy, and produces almost twice the weight per acre of any other variety. **\$2.00 per lb.**

**Improved American (Purple-Top).** Very hardy and productive; flesh yellow, solid, sweet and fine-flavored; equally good for stock or table use. **\$2.00 per lb.**

**Large White French.** Flesh firm, white and solid; large size, and has a very rich flavor. **\$2.00 per lb.**

## MILLET FOR SUMMER SOWING.

Millets are valuable as "catch" or "stolen" crops, especially in seasons when the hay crop is short. They are annuals and grow rapidly, usually being ready for cutting in six weeks from seed sowing. They withstand severe droughts, when other crops are parched up. If cut when in blossom, millets cure into excellent hay; if allowed to ripen they become too woody. Sow from May 1st to August 1st.

**Hungarian Millet.** Is the quickest of catch crops for hay, and may be sown any time up to middle of August; it is invaluable for overcoming a shortage of the regular hay crop. Many farmers now occupy their land with other crops, and for their hay depend entirely on Hungarian Grass, which they can sow after other crops have been harvested. Sow 1 bushel per acre. Price \$6.00 bushel of 48 lbs.; 10 bushels and upwards. **\$5.90.**

**Golden Millet.** This variety is considerably larger than Hungarian and yields a much heavier crop, but is later and not so quick growing, consequently cannot be sown after the fourth of July in this latitude. Our seed is specially selected. Sow one bushel per acre. \$5.00 bushel of 50 lbs.; 10-bushels and upwards. **\$4.90. bush.** (See engraving.)

**Japanese Millet.** Entirely distinct from any other Millet, grows 6 to 8 feet high and produces an enormous crop, yielding 10 to 12 tons green fodder per acre. When cured it

makes excellent hay, and is much relished by all kinds of stock, whether green or cured. Cure as you would a heavy crop of clover. This Millet does not endure drought well, but north of Washington we confidently recommend its general cultivation.

*Sow from the middle of May to the 1st of July, broadcast at the rate of 15 lbs. per acre, but it is better to sow it in drills, 12 to 18 inches apart, using 10 to 12 lbs. per acre, and hoe between the rows to keep down all weeds, until the plant attains a height of 12 to 18 inches, when its rapid growth will smother all weeds.* Price, 15c. lb., 10 lbs. **\$1.20, 100 lbs. \$10.00.**

**SAND OR WINTER VETCH.** *Vicia Villosa.* Is perfectly hardy, remaining green all winter. It should be sown during August and September, mixed with Rye, which serves as a support for the plants, or in Spring with Oats or Barley.

It grows to a height of 4 to 5 feet and is the earliest crop for cutting, being a month earlier than Scarlet Clover, and a full crop can be taken off the land in time for planting Spring crops. It is exceedingly nutritious, and may be fed with safety to all kinds of stock.

Sow one bushel per acre with one-half bushel of Rye or Wheat. Price, 38c. lb., \$18.75 bushel of 60 lbs. 100 lbs. **\$30.00.**

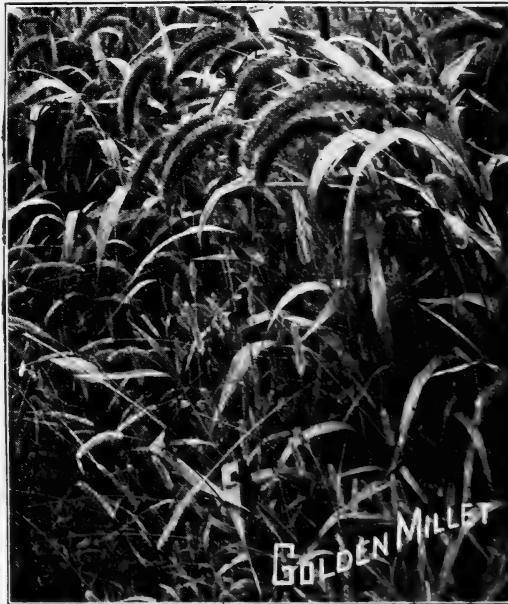
## JAPANESE BUCKWHEAT.

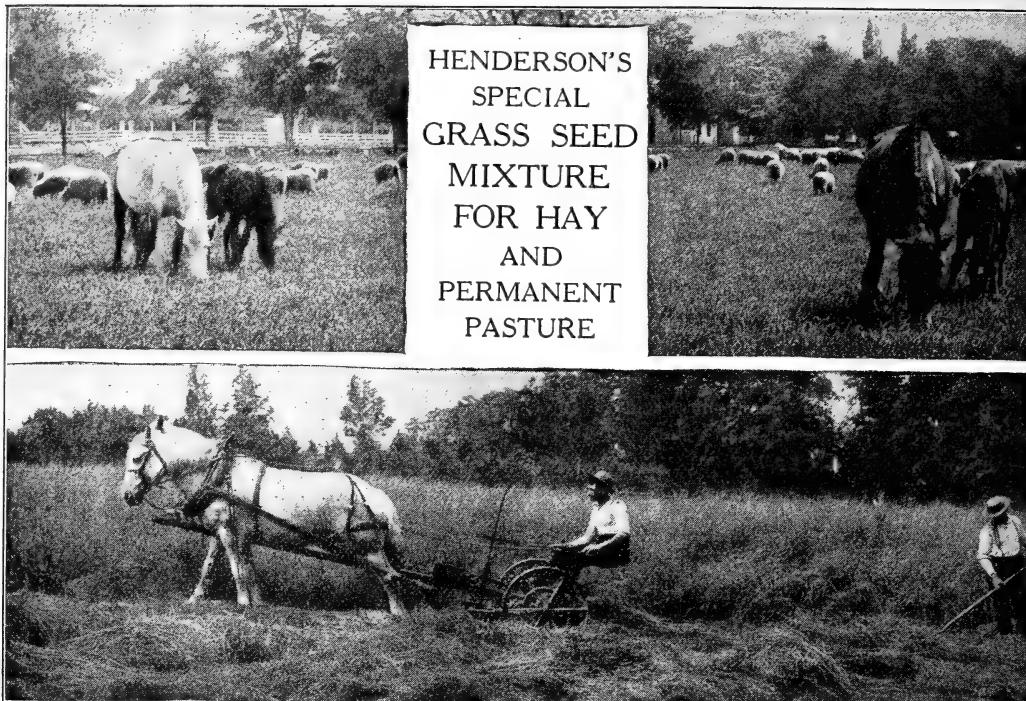
Introduced into cultivation by us in 1887. Japanese has superseded all others and is now almost universally grown in preference to the common black and Silver Hull varieties. Flour made from it is greater in quantity and equal in quality, if not superior to that of any other Buckwheat. It ripens a week earlier than Silver Hull and yields two or three times as much. Price, \$1.25 a peck, \$4.00 per bushel of 48 lbs., 10 bushel lots, \$3.90 per bushel.

## HENDERSON'S RECLEANED CRIMSON OR SCARLET CLOVER FOR SUMMER SOWING

All lands from which crops have been harvested during the Summer and Fall should be sown with Scarlet Clover, plowing under the following Spring. Authorities who have made a careful estimate, state that plowing under a good crop of Scarlet Clover is equivalent to 20 tons of stable manure per acre.

It may be sown among corn, tomatoes, turnips, etc., at time of last hoeing, or after potatoes, melons, cucumbers have been harvested, or on grain stubble and harrowed in. When sown in July and early in August, it has proved hardy as far North as Michigan and Canada. In the latitude of New York, time of sowing may extend from July 15 to September 1st, and further South even later. Sow 15 lbs. per acre. Price, choice recleaned highest quality, new crop seed 35c. lb., \$18.75 bush. of 60 lbs., \$30.00 per 100 lbs.





HENDERSON'S  
SPECIAL  
GRASS SEED  
MIXTURE  
FOR HAY  
AND  
PERMANENT  
PASTURE

The fall season is especially favorable to the growth of young grass, for at that season the seeds have the benefit of thoroughly warmed ground and a copious rainfall, which hastens germination and enables the grass to become firmly established before winter sets in. Then, on the opening of spring, the grass immediately recommences its growth and taking full possession of the ground, prevents weeds from obtaining a foothold.

## Henderson's Special Grass Seed Mixture FOR HAY AND PERMANENT PASTURE.

It Produces Wonderful Hay Crops and Luxuriant Pasture Maintaining Its Cropping Qualities Twenty Years or More.

This famous mixture has seeded thousands of acres of meadow and pasture land for progressive farmers and stock raisers in various parts of the United States, with most gratifying results. It is a well-balanced combination of a number of native and acclimated foreign Grasses and Clovers, blended and improved upon during exhaustive trials under widely varied conditions, soils and localities for several years, until practically perfect, our aim being to produce, under the extremes of the American climate of heat, drought and cold, a PERMANENT, dense and deep-rooting turf that would yield year after year the maximum quantity of forage. These Grasses are of superior quality, inviting, sweet and nourishing, whether used as hay or pasture. That we have been successful is attested by the numerous letters of praise for these special Grass mixtures that we have received from the users, and the tributes to their merits published in many of the agricultural journals. *See Henderson's Farmer's Manual for testimonials. It is sent post free on request.*

In preparing these mixtures the greatest care is exercised in selecting such varieties as are suited to the soil to be sown, and to realize the object in view. Therefore a description of the soil and climate, and the purpose for which sown, and if with or without a grain crop, should accompany each order. Sow 40 lbs. per acre. Full directions for sowing enclosed in every bag. (See engraving.)

Price (purchaser paying carriage), 35c. per lb.; 10 lbs. \$3.25; 100 lbs., \$30.00. (State whether wanted for light, medium or heavy soils.)

### WE ALSO OFFER

Henderson's Special Grass Mixture for Permanent Pasture  
Henderson's Special Grass Mixture for Permanent Hay  
Henderson's Renovating Mixture for Improving  
Old Pastures

Henderson's Special Grass Mixture for Woodland Pastures  
Sow 40 lbs. per acre

Price (purchaser paying carriage), 35c. per lb.: 10 lbs., \$3.25; 100 lbs. \$30.00.

### REGARDING CLOVERS.

Do not omit to sow Clovers with the Grasses, as they add to the yield of hay and pasture, and by their ability to collect atmospheric nitrogen and store it in the root nodules, assist the growth of the Grasses and are of considerable benefit to subsequent crops.

Mixed Permanent Clovers, on account of their greater weight, should be sown separately, but at the same time as the Grasses. This Mixed Clover comprises White, Mammoth Perennial or Cow Grass, Alsike, etc. Sow 10 pounds per acre. Price, 65c. per lb.; 10 lbs., \$6.25; 100 lbs., \$60.00.

## Henderson's Northern Grown Alfalfa Seed.

**ALFALFA, or LUCERNE.** (*Medicago sativa.*) A Clover-like leguminous plant of great importance as a hay and forage crop, nutritious and rich in protein elements. It grows 2 to 5 feet high and sends roots 5, 10, 20, and sometimes 30 feet into the subsoil. It needs one season to become established, after which it yields enormous crops annually for many years. 3 or 4 cuttings per season, aggregating 4 to 6 tons cured hay per acre, are harvested, according to conditions and locality. It does well on all good rich soils (except heavy clay), if well drained, or overlying a permeable subsoil; on calcareous soil it thrives especially well. Sow in the Northern States during June, July or August, 30 to 40 lbs. of seed per acre if broadcasted, or 25 to 30 lbs. if drilled. In the South sow in February or September. Price, 35c. per lb.; \$18.75 bushel of 60 lbs.; \$30.00, 100 lbs.

For complete descriptions of these celebrated mixtures see Henderson's Farmers' Manual mailed free on application.

# The Most Beautiful Lawns in America

Are made with the **HENDERSON LAWN GRASS SEED**. This celebrated mixture has been thoroughly tested by country-wide use for more than half a century. It is the fruit of years of experience and close study of *American conditions* and is undoubtedly the best for the *American climate*. By its use a deep green, velvety sward, free from clumps, can be produced in from four to six weeks' time.

THE FALL SEASON IS ESPECIALLY FAVORABLE TO THE GROWTH OF YOUNG GRASS, for at that season the seeds have the benefit of a thoroughly warmed ground and a copious rainfall, which hastens germination and enables the grass to become firmly established before winter sets in. Then, on the opening of spring, the grass immediately recommences its growth and taking full possession of the ground, prevents weeds from obtaining a foothold. A lawn grown in this way will endure summer drought much better than a spring-sown lawn.

**THE HENDERSON LAWN GRASS SEED** is an intelligently arranged combination of grasses, which are at their best during different months of the year, thus keeping a lawn constantly covered with verdure. It is impossible to make an enduring lawn by sowing seeds of a single variety, which will only grow vigorously for a portion of the year. Kentucky Blue Grass for instance, which is sometimes recommended for lawns, grows but sparsely during midsummer, is slow to form a close sward, requiring two years to do that, and loses color in hot weather.

**THE HENDERSON LAWN GRASS SEED** is composed of fine-leaved, dwarf grasses, which produce a closely interwoven turf that maintains from year to year a covering of enduring green.

The quantity required for new lawns is 5 bushels per acre. For a plot 15 x 20, 300 square feet, use 1 quart. For renovating old lawns, use one fourth to one-half of above quantities. *Full instructions in every bag and package.*

**DELIVERED FREE IN THE U. S.** 30c. per qt., 55c. for 2 qts. \$1 for 4 qts., \$1.75 per peck of 5 lbs.; \$6.00 per bus. of 20 lbs. (By parcel post, express or freight, at our option.)

## HENDERSON'S LAWN GRASS MIXTURE FOR SPECIAL PURPOSES.

**"TERRACE SOD"** Lawn Grass Seed for terrace and embankments; 35 cts. per quart; \$1.25 for 4 quarts; \$2.00 per peck of 5 lbs.; \$7.00 per bushel of 20 pounds. *Delivered free in the U. S.*

**"SHADY NOOK"** Lawn Grass Seed for shady places; 35 cts. per quart; \$1.25 for 4 quarts; \$2.00 per peck of 5 lbs.; \$7.00 per bushel of 20 pounds. *Delivered free in the U. S.*

**"SUNNY SOUTH"** Lawn Grass Seed for southern states; 35 cts. per quart; \$1.25 for 4 quarts; \$2.00 per peck of 5 lbs.; \$7.00 per bushel of 20 pounds. *Delivered free in the U. S.*

**"ATHLETIC FIELD"** Grass Seed Mixture; 30 cts. per pound; \$25.00 per 100 pounds. *Delivered free in the U. S. Sow 75 to 150 pounds per acre.*

**"SEASIDE"** Lawn Grass Seed for sandy soil and saline surroundings; 30 cts. per quart; \$1.00 for 4 quarts; \$1.75 per peck of 5 lbs.; \$6.00 per bushel. *Delivered free in the U. S.*

**"PUTTING-GREEN"** Grass seed Mixture for golf-courses; 35 cts. per quart; \$1.25 for 4 quarts; \$2.00 per peck of 5 lbs.; \$7.00 per bushel of 25 pounds. *Delivered free in the U. S.*

**"FAIR-GREEN"** Grass Seed Mixture for golf-courses; 30 cts. per pound; \$25.00 per 100 pounds. *Delivered free in the U. S. Sow 75 to 150 lbs. per acre.*

**"TOUGH TURF"** Grass mixture for tennis-courts, croquet-grounds and bowling-greens; 30 cts. per quart; \$1.00 for 4 quarts; \$1.75 per peck of 5 lbs. \$6.00 per bushel of 20 pounds. *Delivered free in the U. S.*

*Lawn Grass Seed  
may be sown  
with success  
up to the 20th of June*



Read "How to Make a Lawn," by Peter Henderson, which treats in detail of Lawn Formation and Care.

sent free with all orders.

# THE HENDERSON SELF-ADJUSTING BALL-BEARING LAWN MOWER.

THE KING OF LAWN MOWERS. LIGHT RUNNING, NOISELESS—DURABLE.

SELF ADJUSTING, DRAW CUT. ALWAYS SHARP. DOES NOT PULL THE GRASS.

Leaves the Lawn Smooth and Free from Corrugation.

THE HENDERSON BALL-BEARING LAWN MOWER is made without regard to cost—to be the best, most durable, and the easiest-working Mower on the market, and while the prices are necessarily a little higher than those of Mowers simply made to sell, yet in the end our Mower will prove much cheaper, aside from annoying delays and repairs experienced with cheap Mowers.

THE HENDERSON BALL-BEARING MOWER has high drive wheels, large, open non-clogging cylinder. The spiral of the knives is correctly proportioned to give a continuous cut, leaving the lawn as smooth as if shaved entirely free from the corrugated surface left by other Mowers. The handles are braced and reinforced to prevent twisting and breaking when one side of the Mower is held off the ground, and besides the handle is equipped with improved "grips" which keeps the hands in a natural position, gives more power, and is less tiresome than a continued grasp, with wrists twisted, on a horizontal grip. (See engraving.)

## PRICES FOR THE HENDERSON BALL-BEARING LAWN MOWERS.

	Five Bladed	Eight Bladed	Grass Catcher
16-inch cut.....	\$13.00	\$16.00	Extra, \$3.25
18-inch cut.....	14.50	18.00	Extra, 3.50
21-inch cut.....	16.00	20.00	Extra, 3.75

Note.—We can supply these mowers either with five or eight blades, but always send the five-bladed mower unless otherwise ordered. The eight-bladed mower cuts finer, can be set to mow close to ground, and is extensively used on putting-greens, but it runs a little harder than the five-bladed mower.



## Henderson's Border and Terrace Mower.

Especially designed to cut the grass on borders—the narrow strips of sod sometimes only a few inches wide—between flower beds and walks where a side-wheel mower would have one wheel down in the gutter, and in consequence the mower would cut into the sod. In our Border Mower a large light cylinder extends the full width of the mower and keeps the machine level with the surface and does perfect work. This machine is also useful for regular lawn work. It is very light running, and will give thorough satisfaction.

10-inch cut.....	13.50	16-inch cut.....	18.00
12- " " .....	15.00	18- " " .....	19.50
14-inch cut.....	16.50		

No catchers can be supplied for this mower.

## The Philadelphia "All-Steel" Lawn Mower.

This all-steel, Style A, Philadelphia mower is about the last word in lawn mower construction. The frame, being made of steel in place of cast iron, is much lighter, stronger and not liable to break any place. The drive wheels, 10 in. in diameter, gives great traction power and spin the 4-bladed 6½-in. revolving cutter with great speed, thus leaving a smoothly cut surface. The train of three gears keeps the cutters down to their work and prevents "bobbing up" in high grass.

15-inch cut	\$22.50	Grass Catcher extra.	\$2.75
17- " " .....	25.50	" " "	3.25
19- " " .....	28.50	" " "	3.50
21- " " .....	31.00	" " "	3.75

## "Runaway" High Wheel Lawn Mower.

A first class high-wheel lawn mower, at a popular price; the four revolving knives give a continuous cut; made of best materials, easy running and fully warranted.

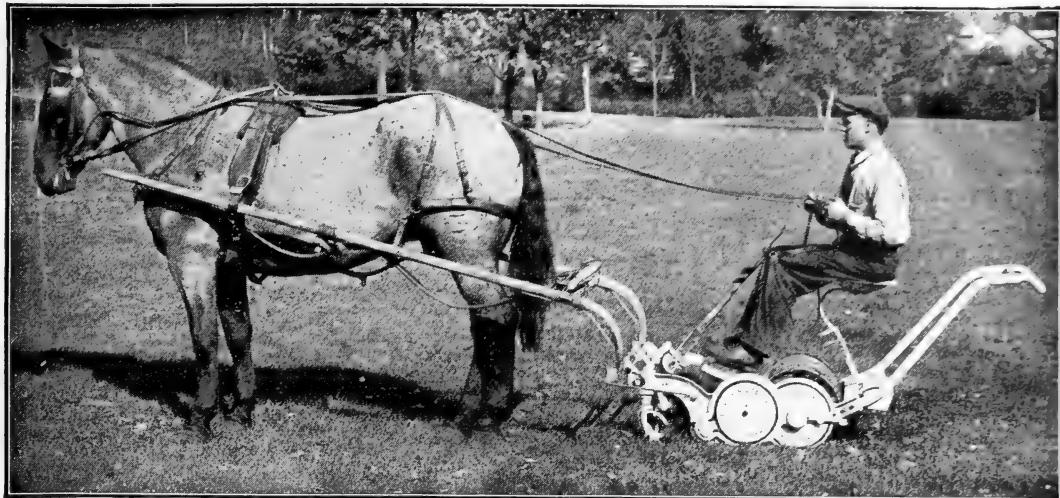
12-inch cut.....	8.25	20-inch cut.....	11.25
14- " " .....	9.00	Metal Bottom Grass	
16- " " .....	9.75	Catcher for any size	
18- " " .....	10.50	"Runaway" Mower (extra).....	1.75

## Excelsior Roller Lawn Mower.

An old reliable lawn mower for those preferring a roller mower which, of course has some advantages over side-wheel mowers, as in mowing new lawns where the ground is still soft and impressionable, cutting narrow borders, where a side-wheel machine will run off the edge, rolling down worm casts, ant hills, etc.; but to offset these merits, roller mowers do push a little harder. Excelsior Roller Mowers are durably made with best crucible steel knives and the adjustments are simple and with the 4-bladed revolving cutter is adapted for all lawn cutting. The 6-bladed cutter is for extra fine work and for golf courses, tennis courts, etc., but runs harder.

12-inch cut with 4-bladed cutter.....	18.00
14- " " " .....	20.00
16- " " " .....	22.00
18- " " " .....	24.00

If 6-bladed cutter is desired, include \$2.00 extra any size; Grass Catcher and Deflector \$3.00 extra, any size.



## The New Improved Henderson Horse Lawn Mower.

IT IS A HORSE LAWN MOWER AND ROLLER COMBINED!

We consider this to be the best horse power Lawn Mower on the market. It is simple in construction and very durable, the best steel and iron being used in its manufacture, and it is finished in the most perfect manner.

A lever beside the driver enables him to cut grass any height, high or low from the ground and to easily and quickly raise the blades over stones or other obstruction without stopping the horse or leaving his seat. A slight movement of a small lever throws the mower in or out of gear without stopping. The side draft rod is attached to the left side of the mower keeping the horse on the cut grass, and preventing the trampling down of the grass which is to be cut. The revolving knives, five in number, are "high speeded," making a continuous cut and leaving the surface of the lawn as smooth as velvet. The rollers, three in number, 15 inches in diameter, with triple pawls in each roll make the most powerful and instantaneous drawing mechanism ever put in a lawn mower. This feature maintains the motion of the blades even when turning sharp corners, a great advantage over other double roll mowers whose knives have no motion when turning corners. The self-aligning journal boxes are a very valuable improvement and prevent cramping of the journals, a very common and dangerous fault in many horse mowers. The foot rest is spacious and prevents cramping of limbs and accidents through the feet slipping into the revolving cutters.

These mowers will weigh, including shafts and driver, 600 to 700 pounds, thereby rolling the lawn at the same time it is cutting; or the cutter may be thrown out of gear, and the machine used for rolling alone.

Prices for the New Improved Henderson Horse Lawn Mower and Roller combined, complete with Tool Box, Seat, Shaft, and side Draft Attachment:

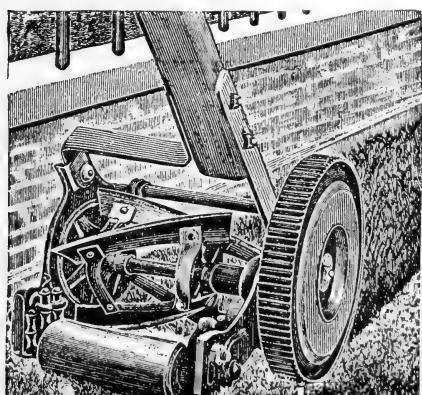
30-inch cut, net weight 485 lbs., packed weight 625 lbs.	.....	\$110.00
35-inch cut, net weight 505 lbs., packed weight 665 lbs.	.....	125.00
40-inch cut, net weight 520 lbs., packed weight 695 lbs.	.....	140.00

### HENDERSON'S IMPROVED HORSE BOOTS.

Prevent horses' hoofs from cutting into soft lawns. Made of superior leather with improved double thick riveted soles and strap around the hoof. In ordering send outline of hoof. Per set of four, \$16.00.

### THE UNIVERSAL LAWN TRIMMER.

The latest and best machine for trimming grass close up to the fence or wall, thus reducing hand work with shears to a minimum. It will also be found handy for trimming up around trees, under bushes, etc. It cuts 6 inches in width. This Lawn Trimmer is a high-grade machine in every respect with self-adjusting ball bearings. Price, \$8.00.



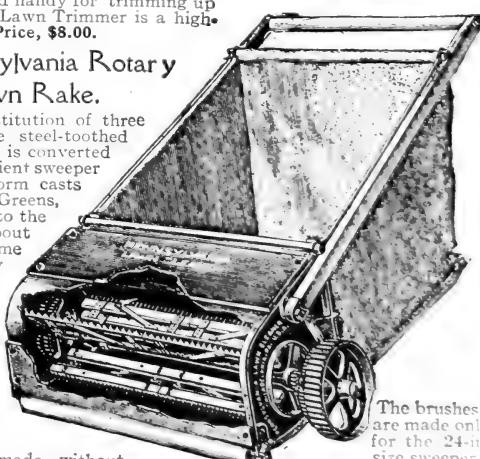
UNIVERSAL LAWN TRIMMER

### The Pennsylvania Rotary Lawn Rake.

By the substitution of three brushes for the steel-toothed rakes, the rake is converted into a very efficient sweeper for removing worm casts from Putting Greens, without injury to the turf and in about one-tenth the time consumed by usual methods.

The sweeper can also be used as a lawn or sidewalk sweeper for removing leaves and other litter. The change from rakes to brushes, or vice versa, is easily made, without taking the machine apart.

PRICES  
24-in.; shipping weight 100 lbs. .... \$25.00  
36-in.; shipping weight 120 lbs. .... 36.00  
Extra set brushes, 24-in. only.... 6.00



The brushes are made only for the 24-in. size sweeper.

## THE HENDERSON Cast Iron Water Ballast Roller.

The advantages of a roller, the weight of which can be increased or lightened at pleasure, can scarcely be over-estimated. Often on light or sandy soil, or on newly made lawns, or in early spring when the ground is moist or after a rainy spell, a lighter-weight roller is a necessity; then on thick sward or on hard soil, on walks and roads, a heavy roller is needed. With a Henderson Water Ballast Roller one can secure any weight desired, between minimum and maximum, by simply removing a thumbcap from each end and filling the two hollow sections with as much water or sand as may be needed, which is easily and quickly done with a hose or through a funnel; and the roller is as quickly emptied. The inside being heavily galvanized, it will last for years.

These are perfect rollers, and do perfect work on lawns, tennis courts, golf grounds, roads, walks, etc. They are high-grade in every respect, being carefully manufactured of best material, and the diameter is large, insuring a lighter draught for a given weight than is usual.

The Henderson Patent Water Ballast Roller for man power. Weighs 300 lbs.; loads up to 600 lbs.; tracks, 24 inches; diameter of drums, 24 inches; counterbalanced handle, stands erect when not in use. Price, \$37.50.

### SHEET IRON WATER WEIGHT ROLLERS

No.	Diam.	Length	Sections	Weight	Water Filled	Price
WB 5	18 in.	24 in.	1	80 lbs.	310 lbs.	\$16.00
WB 7	24 in.	24 in.	1	115 lbs.	500 lbs.	22.00
WB 13	24 in.	32 in.	2	160 lbs.	650 lbs.	28.00
WB 15	24 in.	24 in.	2	140 lbs.	500 lbs.	26.00



### Henderson's Superior Iron Hand Roller.

These are very superior Rollers. The edges are beveled to prevent marking, the faces are ground smooth so they will not pick up and carry lumps of earth, the axles are of steel, the sections fit closely and the handles are of our improved design, will not break, and are counterbalanced so they will always keep up from the ground, clean and out of the way. From 300 to 500 lbs. is the weight chosen for one-man power roller for level lawns. Remember that the heavier the roller used on your lawn the finer sward you will have.

### Henderson's Sod Perforator.

An invaluable tool to aid in renovating bad spots in lawns, grass plots, putting greens, etc. It is operated like a hammer, the lower surface being provided with spikes which puncture the sod, leaving small holes into which much of the seed or fertilizer drops when broadcasted thus preventing its being blown or washed away. The holes are filled with soil by the first rain, which covers the seed so it can germinate. Price, \$3.75.



### The "Everwear" Lawn and Walk Sweeper

Is fitted with a revolving reel, 12 in. in diameter, composed of a series of eight Palmetto fibre brushes—the most durable fibre known, unaffected

by water. All grass, leaves, litter, etc., are swept into the collecting box, which is dumped by simply pulling the chain. Machine can be adjusted for close or light sweeping, adapting it for lawns, tennis courts, putting greens, etc., as well as walks and stable floors. The brush reels automatically take up the wear of the fibre brushes. The drive wheels are 15 inches in diameter, giving a powerful spin to the reel, pushing easily, and reduces the labor of hours to a few minutes.

#### PRICE.

24-inch Lawn Sweeper, ..... \$15.00  
28-inch " ..... 16.00



THE "EVERWEAR" LAWN SWEPEER.

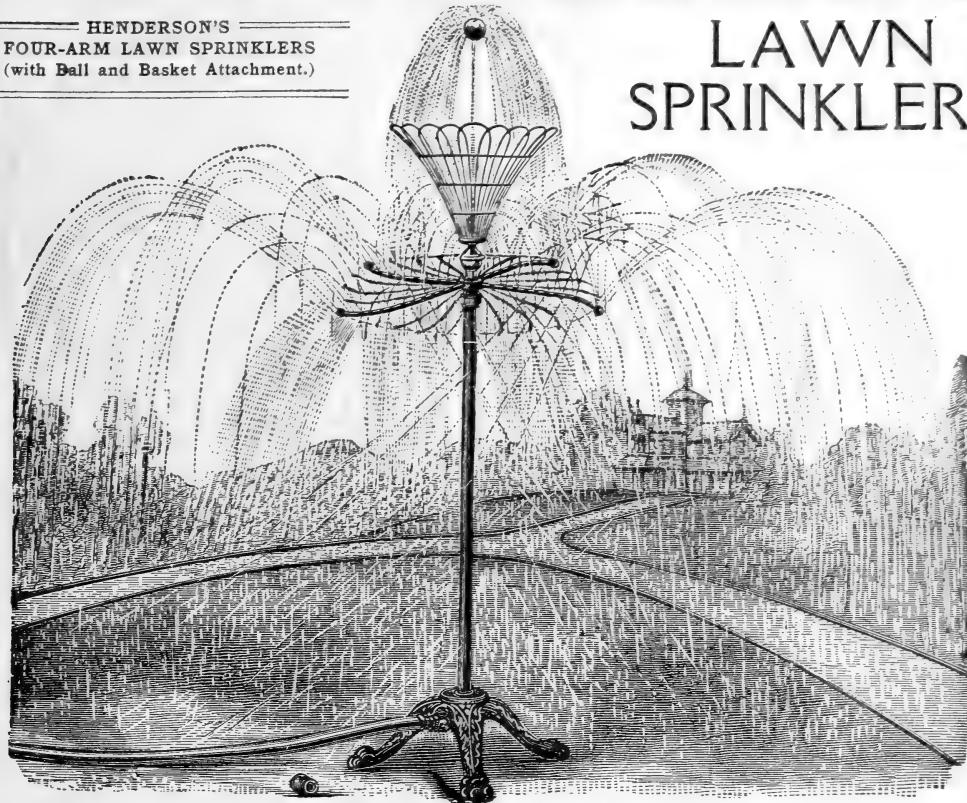


### Prices of Henderson's Iron Hand Rollers.

No.	Diameter	Total Length	Actual Weight	Net Prices
1	15 inches	15 in. in 2 sec.	150 lbs.	\$14.25
2	15 "	22 " " 3 "	200 "	18.75
3	20 "	16 " " 2 "	225 "	21.00
5	20 "	20 " " 1 "	250 "	23.25
6	20 "	24 " " 3 "	300 "	27.75
8	20 "	30 " " 3 "	350 "	32.25
9	24 "	20 " " 2 "	400 "	36.75
11	24 "	24 " " 3 "	450 "	41.25
12	24 "	30 " " 3 "	500 "	45.75
15	28 "	30 " " 3 "	600 "	54.00

HENDERSON'S  
FOUR-ARM LAWN SPRINKLERS  
(with Ball and Basket Attachment.)

# LAWN SPRINKLERS.



## HENDERSON'S 4-ARM and 8-ARM LAWN SPRINKLERS.

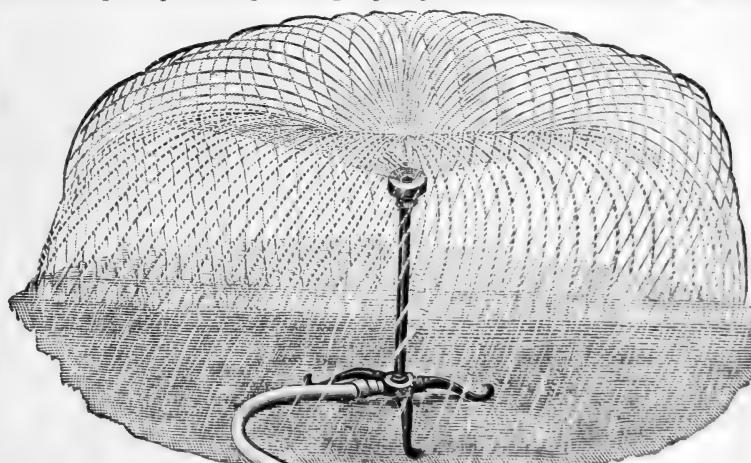
This is the best lawn sprinkler made. It can be attached to hose and placed anywhere on the lawn where it serves the double purpose of a beautiful fountain and of thoroughly saturating the grass or garden. The water is distributed in fine drops over an area of 60 to 100 feet in circumference, according to the water pressure. An ornamental stand, about four feet high, is surmounted with long perforated arms, which revolve, so the beautiful sprays are constantly changing. (See engraving). Prices, 4-arm sprinkler, \$5.00; 8-arm, \$6.00. Ball and Basket Attachment, extra, \$5.50.—This fits on the top of the Henderson sprinkler and the stream of water keeps the silvered ball dancing on its summit up in the air. When the ball falls the basket catches it, and it rolls into the center and is again raised by the water.

## THE "SHOWER" LAWN SPRINKLER.

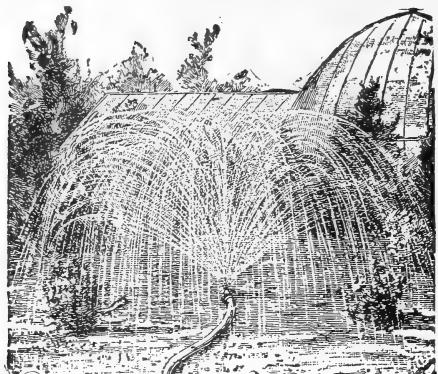
One of the most satisfactory lawn sprinklers we offer. It is a round box like affair—about 3 inches in diameter by 1 inch in depth with a turbine arrangement inside which gives the water passing through a swivel causing it to pass through the single opening and be distributed over a circular area 25 feet or more in diameter according to the water pressure. The water descends evenly from center to circumference in the form of fine rain. Price, on stand, \$3.00, P. P. 4 lb.; without stand, to be used as a nozzle, \$1.35. Mail weight 1 lb.



The simplest lawn sprinkler made—no revolving parts to wear and get out of order or leak. Easily moved about the lawn—made of polished brass—light, durable and economical. Price, 85c. Mail weight 1 lb.



THE SHOWER LAWN SPRINKLER.



WATER WITCH SPRINKLER ON SPUR.

### Campbell Automatic Sprinkler.

is constructed of brass, with the exception of the ball bearings which are of bell metal and bronze.

The machine has two discharge tubes, and the water being forced under pressure from the stand pipe through the sprinkler is projected a great distance in a circle of 50 to 60 feet in diameter. (See engraving.)

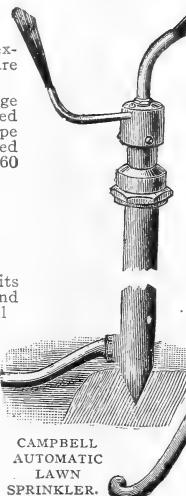
Price, \$3.50.

### The Turbo Irrigator.

This sprinkler, mounted on its tripod, may be placed anywhere and coupled to garden hose. Will water a circle of 50 to 100 feet in diameter, according to the water pressure.

A single stream, broken into a rain of drops and spray is thrown from the nozzle, so that every portion of the ground covered is thoroughly and evenly watered from center to circumference. (See engraving.)

Price, \$17.50.

CAMPBELL  
AUTOMATIC  
LAWN  
SPRINKLER.

### The "Water Witch" Lawn Sprinklers.

An effective device for sprinkling lawns, gardens or flower beds. The water is divided and deflected by the two lips of the swivel piece, which causes it to revolve rapidly scattering the water in fine drops and evenly over a circular area of 25 to 40 feet diameter. It works more satisfactorily with a very low pressure of water than any sprinkler we know of. (See engraving.)

Price without stand, (i. e., with spur to stick in the ground, 55c. each; (Add extra for Parcel Post: weight 1 lb.).

Price, with stand, \$1.25 each. (Add extra for Parcel Post weight 3 lb.)

### "Columbia" Three-Arm Lawn Sprinkler.

This fills the want for a low-priced arm Sprinkler; it is compactly and strongly made with phosphor-bronze bearing and will cover a space 48 feet in diameter with suitable pressure of water. The top and arms are brass, stand and legs of iron handsomely japanned. The water flows freely through an unobstructed channel—it stands 12 inches high. (See engraving.)

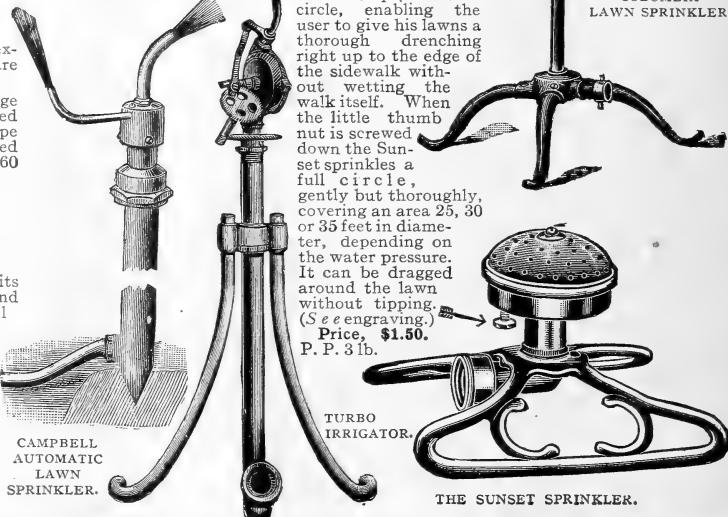
Price, \$2.00 P. P. 3 lb.

COLUMBIA  
LAWN SPRINKLER

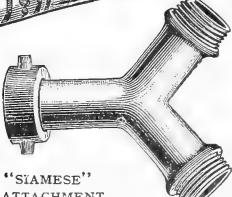
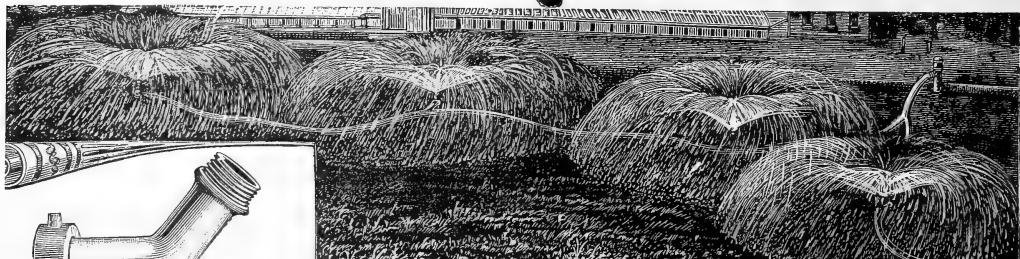
### The Sunset Full Circle and Half Circle Sprinkler.

Does the work of two sprinklers. When the little thumb nut is screwed up the Sunset covers a perfect half circle, enabling the user to give his lawns a thorough drenching right up to the edge of the sidewalk without wetting the walk itself. When the little thumb nut is screwed down the Sunset sprinkles a full circle, gently but thoroughly, covering an area 25, 30 or 35 feet in diameter, depending on the water pressure. It can be dragged around the lawn without tipping. (See engraving.)

Price, \$1.50.  
P. P. 3 lb.



THE SUNSET SPRINKLER.

"SIAMESE"  
ATTACHMENT

### Henderson's "Siamese" Lawn Sprinkler Attachment.

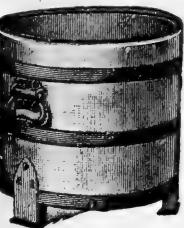
By using these several sprinklers can be used at one time.

Providing the pressure and volume of water are sufficient. A three-quarter inch hose and thirty to forty pounds pressure will operate three sprinklers; a forty to fifty pound pressure, four sprinklers; with one inch hose and a good pressure, six sprinklers can be operated satisfactorily. This method of watering is valuable for thoroughly saturating large areas of lawn or garden, distributing the water more evenly and thoroughly than can possibly be done with a hose nozzle. We found "Water Witch" Lawn Sprinkler (with spur to stick in the ground), offered above, the best sprinkler for the purpose. One of these sprinklers and the "Siamese" was applied at the end of every twenty-five foot length hose. Price, "Siamese" Attachment for  $\frac{3}{4}$  inch hose, \$1.00, P. P. 1 lb.; for 1-inch hose, \$1.35 P. P. 1 lb.

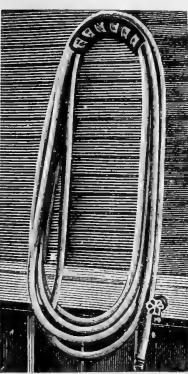
## CEDAR PLANT TUBS.

Heavy iron hoops. Drop handles, serving as hooks for carrying poles. Iron legs. Removable perforated bottoms. Painted green outside and brown inside.

Painted red, if desired, at an extra cost of 10 per cent.



No.	Outside Diameter	Length of Stave	Price
0	27 inches	24 inches	\$11.00
1	25 "	22 "	10.00
2	23 "	20 "	8.50
3	21 "	18 "	7.50
4	18 "	16 "	6.00
5	16 "	14 "	4.75
6	14 "	12 "	4.00
7	13 "	11 "	3.50
8	12 "	10 "	3.00



"HOLE-PROOF"  
HOSE HANGERS.

and protect your hose when in use; preserve it when stored; insure it against holes, cracks and checks; double its life and usefulness. (See engraving.) Carries 100 ft. hose, \$1.00 (Add extra for Parcel Post 5 lb.)

### Hole-Proof Hose Hangers.

"Hole-proof" Hose Hangers" drain, dry

Will throw a coarse or a fine spray or a solid stream. (See engraving.) Price,  $\frac{3}{4}$  in., 85c.; 1 in., \$1.25. (Add extra for Parcel Post, weight 1 lb.)

## BRASS HOSE NOZZLE.

With stop cock spray hose and stream. (See engraving.) Prices, for  $\frac{3}{4}$  in. hose, \$1.50, for 1 in., \$1.85. (Add extra for Parcel Post, weight 1 lb.)

## GEM NOZZLE HOLDER.

For watering lawns, flower beds, etc. The hose is held firmly and can be adjusted to any elevation. Price, 30c. (See engraving.) (Add extra for Parcel Post, weight 1 lb.)

## WIDE FACE HOSE SPRINKLER.

The holes are small and numerous, so that a copious yet gentle shower is given without washing or packing the soil. (See engraving.) Price, for  $\frac{3}{4}$ -in. hose, 3 in. face, \$1.25; 4-in. face, \$1.50 (Add extra for Parcel Post, weight 1 lb.)

## THE SURE SHUT HOSE MENDER.

The simplest, strongest and best device on the market for repairing leaky hose. No tools necessary to attach it. Makes an absolute water-tight connection. Made entirely of brass and will not rust. Price, for  $\frac{3}{4}$ -inch hose, 20c. each, \$2.00 per doz. P.P. 2 lbs.

## HOSE REDUCER.

For connecting hose of 1 in. bore with  $\frac{3}{4}$ -in. (mailed free), 45c. (See engraving.)

## Henderson's "BEST PARA" RUBBER HOSE.

This is the highest grade of garden hose, being made entirely from New Para Rubber, and will outlast cheap hose three times over. Will stand 1000 pounds of water pressure, and it will be a good investment for many years, just as when new, while cheap hose of that age will be hard and brittle. Every length of Henderson's "Best Para" Hose is fitted with the new "sure-shut" clamps, without extra charge. (See engraving.) (Hose is 12-in. bore, in 25-foot and 50-foot lengths; the size  $\frac{3}{4}$  inch refers to the internal diameter of the hose.)

$\frac{3}{4}$ -inch bore Para, per 25-foot length, \$6.50; per 50-foot length, \$12.50



"Standard Quality"  
Rubber Hose.

This is a good hose that is often sold as the "best." It is a good hose and will stand a 1000-lb. pressure. Each length is fitted with the regular clampings, without extra charge. For  $\frac{1}{2}$ -in. Spray Pump Hose and Tubing see page 18.

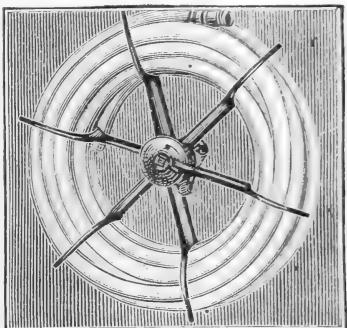
## SIMPLEX HOSE REEL.

A stationary reel to be attached to wall or side of a building or fence in any convenient place. Just the thing for small gardens where a portable reel is in the way and where only 25 to 50 feet of hose is used. The smallest diameter of the arms is 12 inches, and when filled with 50 feet of  $\frac{3}{4}$ -inch hose, the outside diameter is about 22 inches. The Simplex reel is shipped "knocked down" with all necessary parts and screws to put together and fasten up. Mail weight, 6 lbs. Price, \$2.00.

## ALL IRON HOSE REEL.

The All Iron Hose Reels are constructed entirely of iron, and are indestructible; light in weight, frictionless, and the wheels being high make it easily manipulated; these reels cannot tip over when unreeling and there is no weight of hose to carry on the handle. (See engraving.)

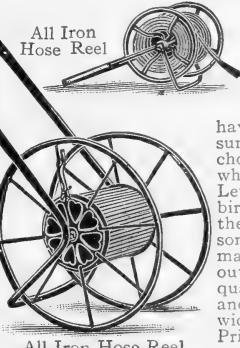
No. 10, 21-in. wheels, holds 100 ft.  $\frac{3}{4}$ -in. hose.....\$4.75  
No. 20, 24 " " 150 " " ..... 5.50  
No. 30, 30 " " 500 " " ..... 7.50



## BIRD NETTING

To Protect Fruits, Vegetables, Etc.

What is more exasperating than to anticipate a liberal picking of some fruit to find when you reach the garden that your bird neighbors have been there before you and consumed or destroyed the ripest and choicest berries, grapes or cherries, of which some birds are voraciously fond. Lettuce and peans are often ravaged by birds, even flowers are not immune from their attacks, and they revel among some plants' ripening seeds. All this may be obviated by shutting the birds out with bird netting. This is a good quality cotton netting of 1 inch mesh and comes in 20 foot and 30 foot widths and of any reasonable length. Price, \$1.75 per 100 sq. ft.; P.P. 1 lb.

The "Graduating"  
Spray Nozzle

Copper Hose Mender



For full line of Garden Tools  
see our catalogue  
'Everything for the Garden.'

## BEST QUALITY HAND TOOLS

(See illustrations in adjoining column.)

**BRUSH AXE.** This is an excellent tool for trimming out under-brush, cutting down hedges, etc. Price, handled, \$2.35.

**DANDELION AND PLANTAIN SPUD.** A handy tool for cutting dandelions, plantain and other weeds out of the lawn. Also useful when out botanizing. Price, 45c. (Add extra for Parcel Post; weight, 1 lb.)

**GARDENER'S GLOVES.** For protecting the hands, handling thorny plants, etc. Cordovan Horse Hide, per pair, \$2.00. (\$2.25; Ladies' size, \$2.00. (Add extra for P. P., weight, 1 lb.)

**Rubber Gardening Gloves.** With gauntlets. Men's sizes, \$2.25; Ladies' size, \$2.00. (Add extra for P. P., 1 lb.)

**GRASS CUTTING SHEARS—Grass Edging or Border Shears.** For trimming the grass around the edges of walks, etc. Price, 9-inch blades, \$4.50 or with wheel, \$5.00.

**Lawn Shears.** For cutting grass under shrubs, fences, etc. Price, with two wheels, 9 inch blades \$6.00.

**"Trowel Shank" Grass Shears.** Solid steel, of finest quality and temper; 7-inch blades. The raised, trowel-like handles keep the knuckles off the ground and allow smooth cutting, \$1.35. (Add extra for Parcel Post; weight 2 lb.)

**GRASS HOOKS—English Riveted Back.** Thin sharp blades, strengthened by a riveted back, light and rapidly handled. Small size, 60c.; medium size, 70c.; large size, 80c.

**Knuckle Saver Grass Hook.** The handle is raised from the blade, making it possible to cut close without bruising or skinning the knuckles. Price, 75c.

**Popular Grass Hook.** Low in price but of very good edge holding quality. Price, 35c. each.

**HALF MOON BORDER EDGING KNIFE.** For trimming sod around walks, etc. Price, with handle, 85c. each.

**HEDGE SHEARS.** For both trimming hedges and cutting grass under fences, bushes, etc. The "Notch" at the heel of the blade is for cutting branches.

**English Hedge Shears.** 8-inch blades \$2.50; with notch \$2.75; 9-in. blades \$2.75; with notch, \$3.00; 10-in. blades, \$3.00; with notch, \$3.25.

**IMPORTED ENGLISH RIVETED-BACK LAWN SCYTHE.**

Light and thin broad blades, with a riveted back. Price, 32 inch, \$3.00; 34 inch, \$3.25; 36 inch, \$3.50; 38 inch, \$3.75.

**LAWN RAKES—Reversible Steel Lawn Rake.** Heavily tinned steel teeth. The arched teeth for leaves and litter and the opposite side for fine cut grass. Twenty-four teeth closely set in a 21-inch head. Price, 95c. ea.

**Reversible Steel Lawn Rake with Teeth Cleaner.** This is the reversible Steel Lawn Rake described above with an extra iron bar—which slides up and down, quickly cleaning the rake when clogged. Price, with handle, \$1.35 each.

**Wood Lawn Rake.** Our wood rakes are of superior grade; selected wood; 3 bow. **Wood Hay**, 12 teeth, 60c. ea., \$6.50 doz. **Wood Lawn**, 24 teeth, 60c. ea., \$6.50 doz.

**PLANET, JR. LAWN AND TURF EDGER.** This very handy and desirable little tool trims the turf around the edges of the flower beds, walks, roads, etc., and is invaluable in giving a finished appearance to the lawn. The revolving cutter does perfect work, either on a curved or straight border, edging accurately at just the correct angle and at the speed of a mile an hour, while the hoe cleans the bottom of walk. The hoe can be removed if desired. The small tooth is for cement and stone walks. Price, complete, \$9.00.

**SCYTHE STONES AND RIFLES.** American Talacre; round taper ends, 25c. each, \$2.75 doz. "Ohio-Red end," flat stone, 10c. each; \$1.00 doz. **Rifles**, quadruple emery-coated, 20c. each, \$2.00 doz.

### DASCO RUBBISH BURNER.

A very convenient basket-like arrangement. Constructed of No. 11 gauge special formula open-hearth wire, 1-in. mesh between upright rods, reinforced each 4 in. by wire rings, each joint electric welded. Made in 3 sizes.

Size	Price
16x20.....	\$3.50
18x28.....	5.25
20x36.....	6.50

**WEEDING TOOLS—Eureka Hand Weeder.** Our choice of the finger weeders; the prongs, being of solid forged steel, are thin and long, and do good work in loosening soil. Short handle, 50c. each, \$5.50 doz. (Add extra for Parcel Post; weight, 2 lbs.) Long handle, 60c. each \$6.50 doz.

**Chisel Blade Weed Cutter.** Long handled with foot rest so it can be pressed into the soil, cutting off roots or weeds without marring the lawn. Price, 90c. ea.

**Lifting Weeder.** A chisel blade cuts off the weeds; the trigger holds them so they can be pulled out. Price, 75c. ea.

**YOUTH'S SET OF GARDENING TOOLS.** These are of first-class quality; not toys. The set consists of digging fork, shovel, hoe, rake, trowel and weeder. Price, \$4.50 per set.

# "EL-FLO" HOME CANNING OUTFITS.

Preserve the Surplus Products of Your Garden in Half the Usual Time.

Every home should possess a canning outfit, it means the preservation of surplus vegetables and fruits for winter use, that otherwise go to waste. With an "El-Flo" outfit, canning is a work of pleasure and is accomplished in half the time. A 50c. Book of Instructions, with proper receipts for canning vegetables and fruits furnished free with every canner.

**"El-Flo" One-Hole Kitchen Canner, No. 14.** Round boiler 14 inches wide by 12 inches high, with accessories for canning in tin or glass; holds 14 No. 3 (1-lb.) cans or 7 quart jars. May be used on any coal or wood cook stove. Capacity, 80 to 150 cans or 93 quart glass jars per day; weight, 15 lbs. (See engraving.) Price, \$5.50.



**"El-Flo" Two-Hole Kitchen Canner, No. 24.**

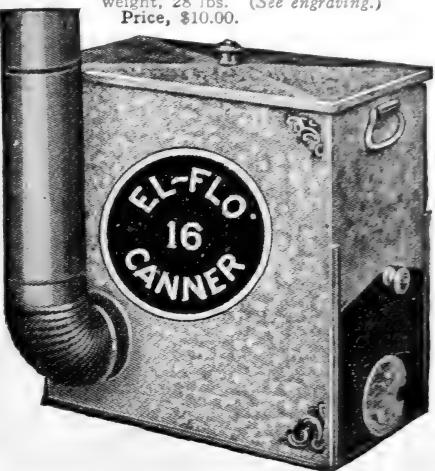
Nearly double the capacity of the above. Oblong boiler 19x14 inches by 12 inches high. May be used on any coal or wood cook stove. The No. 24 holds 24 No. 3 cans, or 12 quart glass jars. Capacity, 125 to 200 cans or 160 glass quarts per day; weight, 20 lbs. Price, complete, with all accessories for canning in tin or glass, \$6.50.

**"El-Flo" Large Family Outdoor Canner, No. 30.** A complete canner with firebox that burns either coal or wood, and can be placed anywhere outdoors. The oblong boiler measuring 14 x 23 inches by 23 inches high; holds 30 No. 3 (1-lb.) cans or 15 glass quart jars. Will put up 400 to 600 No. 3 cans or 594 glass quarts per day. Furnished complete with all accessories for canning in tins or glass, and with two joints of pipe; weight, 55 lbs. Price, \$15.00.

tins or 15 glass quart jars. Will put up 400 to 600 No. 3 cans or 594 glass quarts per day. Furnished complete with all accessories for canning in tins or glass, and with two joints of pipe; weight, 55 lbs. Price, \$15.00.

**"El-Flo" Small Family Outdoor Canner, No. 16.** A complete canner with firebox, which burns either coal or wood. It can be placed anywhere outdoors and keeps the "canning muss" out of the kitchen. It holds 16 No. 3 (1-lb.) cans or 8 glass quart jars; capacity, 275 to 350 No. 3 cans or 306 glass quart jars per day; boiler oblong, 10x18 inches by 18 inches high furnished complete with two lengths of pipe, also all accessories for canning in tins or glass, weight, 28 lbs. (See engraving.)

Price, \$10.00.



## EL FLO CONTINUOUS HEATING CAPPING STEEL.

The solution to sealing problems. To the defective sealing by improperly heated tools is attributed the greater per cent. of loss in canned goods—thus the ever-ready, evenly heated capping steel will insure you against chance. Five cents worth of gasoline will run the EL-FLO heater a whole day—sealing more than 1,000 cans—limited only by the speed of the operator.

A blue flame plays continuously on the steel, keeping a nice uniform heat the whole day through. It is light, neatly finished, compact, convenient and never requires any "tinning" or "fluxing". Perfectly safe, and is as simple and easily operated as a lamp. No experience whatever is needed to do perfect and rapid sealing from the beginning. Three styles and made in all sizes. The heat is applied on either side, top or interior of steel.

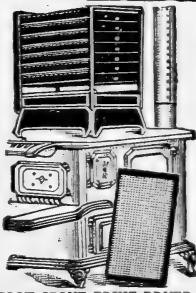
EL-FLO continuous Heater, with capping steel "tinned," key and pump, any size, \$5.00.

EL FLO CAPPING STEEL

## COOK STOVE FRUIT DRYER OR EVAPORATOR.

This is the latest, cheapest and best machine of its kind on the market. It can be used on any kind of stove. Its dimensions are: Base, 22x16 inches; height, 26 inches. Containing eight galvanized wire-cloth trays. Weight, 25 lbs. No extra fire is required. It is easily set off and on the stove, as needed, whether empty or filled with fruit.

With it you can evaporate all kinds of fruits, berries, and vegetables. Price, \$7.50.

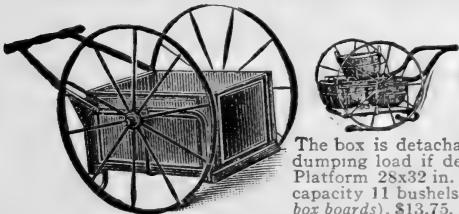


COOK STOVE FRUIT DRYER.

## WOODEN PLANT STAKES.

Stakes—Round Green Tapering			Square Green Tapering			Round Dahlia Poles Green, White Tops		
Length	Doz.	100	Length	Doz.	100	Length	Doz.	100
2 feet.....	\$0.45	\$2.50	\$0.40	\$2.25		2 feet.....	\$0.65	\$4.75
3 ".....	.75	5.00	.75	5.50		3 ".....	.90	6.75
4 ".....	1.00	7.50	1.10	7.50		4 ".....	1.40	8.75
5 ".....	1.25	9.00	1.35	10.00		5 ".....	1.75	12.50
6 ".....	2.25	15.00	1.60	12.00		6 ".....	2.00	15.00

## BUTLER STEEL HAND CART WITH BOX AND HOPPER



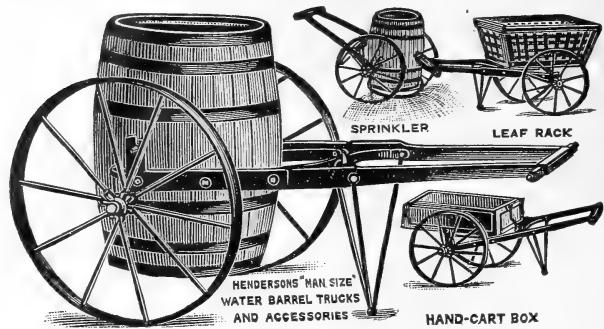
The box is detachable. The cart turns clear over for dumping load if desired. Wheels 36 inches high; from out to out of hubs, 42 in. Platform 28x32 in. Box boards 15 in. high. Flaring Hopper 12 in. above box makes capacity 11 bushels for leaves, litter, etc. Prices. (Wheels 2 1/4 in. tire), plain (without box boards), \$13.75. With detachable Box boards, \$18.00. With detachable Boxboards and Flaring Hopper, \$23.50. (Wheels with 3-in. tire, \$4.00 extra).

## Fruit, Wine and Jelly Press.



Superior, simple, easily operated, saves all rehandling, as it extracts the juice and ejects the skins and seeds in one operation; it can be used for many purposes, including the making of wine, jellies, fruit butters from grapes, currants, quinces, pineapples, tomato catsup, etc.

Price, family size, capacity 1 qt., \$6.50.



## HENDERSON'S "MAN-SIZE" WATER BARREL TRUCKS AND ACCESSORIES.

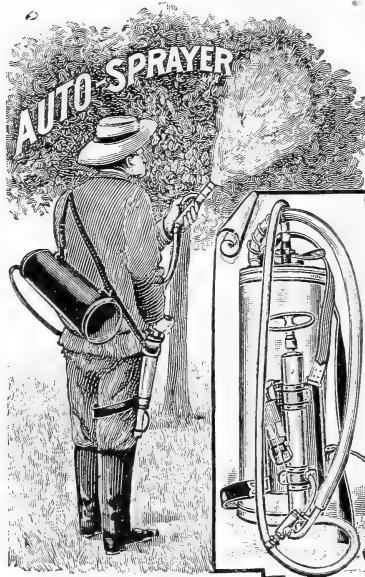
The Barrel, capacity about 50 gallons, is raised from the ground, carried to the place desired, and can be readily disconnected from or attached to the truck while barrel is either full or empty.

We supply as extra attachments the following: A Box with trunnions and spring catch, making a very superior dumping Hand-cart. A Sprinkler, invaluable for watering lawns and sprinkling walks (water is turned on and off by hand wheel and ball valve.) A Leaf Rack, very useful for removing leaves and litter. A Force Pump for spraying, etc. (For a Spray Pump we recommend our "Fruitall" offered on this page.)

### PRICES OF HENDERSON'S "MAN-SIZE" WATER BARREL TRUCKS AND ACCESSORIES

Water Barrel-Truck, 1 1/2 in. tire, \$17.50; with new 50-gallon barrel	\$22.00	Hand-cart Box Extra.....	\$6.50
"      "      2 1/2 "      18.50      "      "      23.00		Leaf Rack      "      13.00	
"      "      3 1/2 "      19.50      "      "      24.00		Sprinkler attachment.....	5.50
Extra 50-gallon barrel, with trunnions on.....	6.00	Extra trunnions, per pair.....	.90

## AUTO COMPRESSED AIR SPRAYER.



The standard of all compressed air sprayers. Can be used in every variety of garden work. Will spray five acres of field crops, a limited number of trees, and will handle whitewash, etc., in the Poultry house. Capacity about 4 gallons. Easily carried either by handle or shoulder strap. Made with tank of either brass or galvanized iron, furnished with Auto-pop Nozzle No. 1, with which the spring is instantly controlled, and is automatically self cleaning.

### NET PRICES

Auto-spray No. 1 B. Brass tank with Nozzle.....	\$11.00
Auto-spray No. 1 D. Galvanized tank with Nozzle.....	7.50
Two row attachment for spraying 2 rows at one passing.....	1.50
Brass Extension Pipes, 2-ft. lengths, each.....	.60
Brass Elbow for spraying under leaves.....	.30
Torch for burning worms' nests.....	1.10
Brass Strainer for straining solution.....	1.40

## THE "SUCCESS" KNAPSACK SPRAYER. AND BUCKET SPRAYER COMBINED

This valuable Sprayer is used for applying Bordeaux Mixture and other fluid remedies in a mist-like spray, for the treatment, prevention and cure of mildew, black rot, potato blight and kindred diseases; with it a man can spray five to six acres of vines in a day. The working parts are made entirely of brass, and the chemicals will not corrode or rust them. The air chamber keeps up a steady pressure, so a continuous discharge is given. The Pump may be worked with either the right or left hand. The drip cup is just below the air chamber, and is made extra wide, so that any leakage around the plunger is returned into the tank and not allowed to run down the operator's back. An attachment is furnished for under-spraying. This sprayer may be used either as a knapsack or bucket sprayer.

### Price Complete

Brass Tank.....	\$27.00
Galvanized Tank .....	21.00

## HENDERSON'S "FRUITALL" SPRAY PUMP.

Fop spraying fruit, ornamental and shade trees, vines, grapes, etc.

It has all working parts of brass, and can be mounted on or removed from barrel or tank by the simple adjustment of two thumb-screws. The pump is easily operated by a single person. The Paddle Agitator is mechanical in its action and much superior to the old method of "return discharge."

Prices (For Barrels and Truck, see above).

HENDERSON'S "Fruitall" Pump only (with Agitator) \$12.00; with barrel, \$17.00.

HENDERSON'S "Fruitall" Pump, Out-fit "A", single spray, pump with one lead 15 ft., 1/2 in. discharge hose, with "Vermorel" Spray Nozzle and Agitator, \$16.00; or with barrel, \$21.00.

Extras for Tall Tree Spraying.

The following are adaptable for any of our Spray Pumps:

Iron Extension Rods, 8 feet long with shut-off cock "SUCCESS" KNAPSACK SPRAYER. at base fitted to attach hose at bottom and nozzle at top, \$2.75 each; brass shut-off for 1 lead, \$1.85 extra; for 2 leads, \$2.50 extra.

HENDERSON'S "FRUITALL" SPRAY PUMP. Spray Hose, 1/2-inch, 18c. per foot. Couplings, extra, 30c. per set.





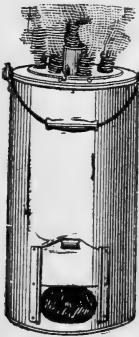
#### Solid Brass COMPRESSED AIR ATOMIZER.

Delivers a continuous fog-like spray. Is fitted with straight and adjustable nozzles, making a perfect under leaf sprayer, and holds 1 quart. Price, \$2.25 (mail weight 2 lbs.)

#### HENDERSON'S SHEET BRASS VAPORIZING SPRAYER.

Sprays fluids in the form of mist. The tapering point to the air-chamber gives great force to the spray. Holds one quart. Price, \$1.50 (mail weight 3 lbs.)

#### Greenhouse Fumigators for Smoking Plants.



#### EUREKA FUMIGATORS

For fumigating greenhouses with dampened tobacco stems; made of galvanized sheet iron; a damper regulates the draft; no danger of fire; no ashes or litter. No. 1, 12 ins., high, \$2.25; No. 2, 16 ins., high, \$3.50; No. 3, 20 ins. high, \$4.50; No. 4, 24 ins. high, \$6.00.

#### PERFECTION FUMIGATORS

This fumigator has a water tank between the fire and the outside, preventing burning out. The tank should be filled with tobacco water, from which a vapor arises and mixes with the dry smoke from the stems producing a dampened smoke not injurious to foliage. Outside fumigating can also be done with the Perfection; the cast iron lid is made so a hose can be attached, and all the outlets for the smoke (except through the hose) can be closed off. No. 1 holds 1 peck of stems, \$4.75; No. 2 holds  $\frac{1}{2}$  bush. of stems, \$5.75; No. 3 holds  $\frac{3}{4}$  bushel stems, \$7.50.

#### PERFECTION FUMIGATOR.

HENDERSON'S SHEET BRASS VAPORIZING SPRAYER.

SOLID BRASS COMPRESSED AIR ATOMIZER.

#### THE "HENDERSON" HAND BUCKET PUMP.

This is the best and most durable portable hand pump in the market. Working parts are made of solid brass with large air chamber, and is double acting, throwing an absolutely continuous stream, either solid or in a fine spray as desired. Very light and easily carried, and works from any bucket or tub. Just the thing for throwing in and insecticides and fungicides on low trees, shrubs, plants, etc., and by altering the nozzle it can be used for washing carriages, windows, etc. Price, with 3 feet of hose and combination spray and stream nozzle, \$6.00; or with extra 7-foot section of hose and pole connection for tree spraying, \$7.25.

#### HENDERSON'S "GEM" SPRAY PUMP.

Clamps to side or chine of barrel, but is made particularly for our Water Barrel and Truck Outfits (see page 22). The "Gem" is intended to fill a want for a low-priced pump. It has not the power or capacity of larger pumps, but where there are only a few trees, etc., to be treated, it will answer for applying both insecticides and fungicides, and by altering nozzle it is adapted for sprinkling walks, watering flowering beds, etc. Pump can be very quickly removed from tree.

Prices (without barrel or the truck).

Gem Outfit "A." Pump fitted with 2 ft. of suction pipe and hose strainer;  $\frac{5}{8}$  ft.  $\frac{3}{4}$ -in. hose and nozzle, \$10.00.

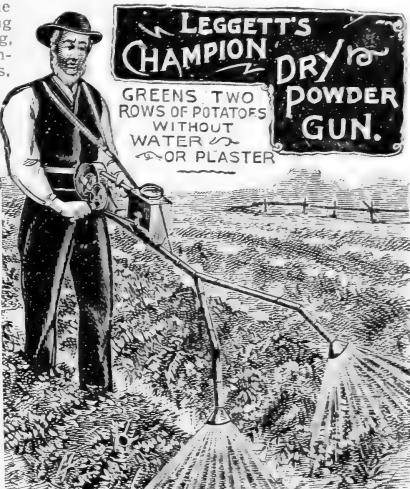
Gem Outfit "B" is the same as "A," excepting that hose is  $1\frac{1}{2}$  ft. long, fitted with pole connection to spray trees, \$12.00.

#### The Asbestos

#### Torch.

If passed quickly along the branches the heat instantly destroys the nests and insects and will in no way injure the tree.

Price, 45c. ea. (mail weight 1 lb.)



#### LEGGETT'S CHAMPION POWDER GUN.

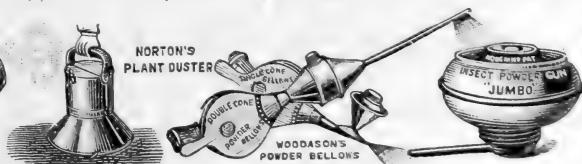
Blows all dry powders, such as Paris Green, Persian powder, etc., over plants and into trees, for the killing of insects and fungus. It will cover a given area with a cloud of powder, and use less than any other contrivance. Weight 5 pounds, is easily carried and is operated by turning a little crank. Price, complete, \$15.00.

**Jumbo Powder Gun.**—For applying insect powders; it holds about 4 oz. of powder, which is ejected and distributed by pressure with the thumb. Price, 40c. each.

**Woodason's Double Cone Dry Powder Bellows.** This double cone bellows can be held in any direction without wasting powder, as it regulates its own supply. It dusts under the leaves as well as on top. Price, \$6.00.

**Woodason's Single Cone Dry Powder Bellows.** Price, large size, \$3.75, small size (for conservatory and house use), \$2.25.

**Norton's Plant Duster.**—For dusting potatoes, vines, etc. The guard prevents the powder from escaping beyond the plant being treated. Price, \$1.60 each.



Prices of Implements, Fertilizers, Insecticides, etc., are subject to change without notice.

## REMEDIES FOR INSECTS AND FUNGUS CONTACT AND STOMACHIC

**Insects that Suck the Juices from Plants, Foliage, etc.**, such as lice, green, black and white aphis or fly, mealy bug, red spider and scale, thrust their proboscis into the leaf or stem, and are not affected by stomach poisons; so they must be destroyed by contact insecticides. Those in powder form kill by closing the breathing pores in the insect's skin; or in fluid form by being absorbed through these pores. The best contact insecticides in powder form are Bug Death, Hellebore, Slug Shot and Tobacco Dust. The best in fluid form are Aphine, Black Leaf 40, Fish (Whale) Oil Soap, Nicotine (Tobacco Extract), Kerosene Miscible Oil and Lemon Oil.

**Insects that Eat Plants, Foliage, Vegetables, Fruits Flowers, etc.**, whether bugs, beetles, worms, caterpillars or slugs, are more quickly and effectually destroyed with a poisonous stomachic insecticide such as Arsenate of Lead, Paris Green or Hellebore. These if applied according to directions are so diluted as to be harmless to vegetation and to animal life. Less poisonous stomachic and contact insecticide are Bug Death, Kerosene Emulsion, Slug Shot, etc.

**APHINE.** Very powerful, soluble in water applied as a spray, wash or dipping solution. It kills aphis, thrip, red spider, slugs, ants, mealy bug, scale. Price, 1 gall., 25c.;  $\frac{1}{2}$  gall., 40c.; pint, 65c.; quart, \$1.00; gallon, \$2.50.

**APHIS PUNK** is a wood-pulp paper, in 6x33-inch sheets, saturated with 22½ per cent. nicotine, rolled and dried. When lighted it burns slowly and is a cleanly, convenient and effectual remedy for "smoking" conservatories, etc., for green and black fly thrip, etc. Price, per carton of 12 rolls, 75c. (*mail weight, 1 lb.*); per case of 12 cartons, \$7.50.

**ANT DESTROYER (non-poisonous), Designed Especially for Use on Lawns, Tennis Courts and Putting Greens.** This product was used successively for two years on the grounds of one of the most famous Golf Clubs in America before being offered to the public. One quart, 60c.; one gallon, \$1.75; five-gallon can, \$8.00.

**ANT-I-CIDE.** A powder with a repellent odor, effective against ants and crawling insects that infest lawns. Strew so the surface infested will be thoroughly covered. One pound will dress about 300 square feet. Price, 1-lb. package, 25c.; 5-lb. bag, \$1.00; 25-lb. drum, \$4.50.

**ARSENATE OF LEAD—PASTE.** A poison taking the place of Paris Green. Its advantages are that it adheres to foliage, does not readily wash off by rain and does not injure tender foliage. It is white in color and shows just where it has been applied. Price, 1-lb. tin, 45c.; 5-lb. tin, \$2.00; 10-lb. pail, \$3.50; 25-lb. bucket, \$6.50; 50-lb. bucket, \$12.50; 100-lb. keg, \$24.00.

**ARSENATE OF LEAD, POWDERED.** May be used either as a dust diluted with hydrated lime, plaster or road dust, or as a liquid spray with water, lime-sulphur, solution or Bordeaux, one half the weight is needed as of the paste form. Price, 1 lb., 65c.; 5 lbs., \$2.75; 10 lbs., \$5.25; 25-lb., \$12.00.

**"BLACK-LEAF 40."** Very effective for sucking insects such as plant lice, red spider, leaf hopper, thrip, etc., sprayed on. Dilute 2 teaspoonsful to a gallon of water. It also forms a splendid spray for both insects and fungus with Bordeaux. Price, 1-oz. bottle, 25c.;  $\frac{1}{2}$ -lb. tin, 75c.; 2-lb. tin, \$2.50; 10-lb. can, \$10.75.

**BORDEAUX & ARSENATE OF LEAD.** A combination in proper proportions of these standard insecticide and fungicide remedies, killing insects and plant diseases at one spraying and in half the time required to spray on separately. Quantity required, 1 to 2 lbs. in 10 gallons of water. Price, 1 lb., 40c.; 5 lbs., \$1.75; 10 lbs., \$3.00; 25 lbs., \$6.00; 50 lbs., \$11.50; 100-lb. keg, \$22.00.

**BORDEAUX—LIQUID.** Ready for use by simply adding 1 part to 50 of water. An indispensable fungicide, curing and preventing black rot, mildew, blight, rust, scab, and all fungoid diseases on fruits and plants. Price, 1 pint, 40c.; 1 quart, 60c.; 1 gallon, \$1.50; 5 gallons, \$6.50.

**BORDEAUX, POWDERED.** Requires 1 to 1½ lbs. to 10 gallons of water as fungicide spray. Price, 1 lb. 45c.; 5 lbs., \$2.00; 10 lbs., \$3.50.

**BOROWAX.** A complete protection against tree borers. Use half to one pint to a tree according to size. Price, quart, 35c.; half gallon, 60c.; gallon can (boxed), \$1.00; 6 gallons (boxed), \$5.00; half-barrel, \$20.00; barrel, \$35.00.

**BUG DEATH.** A non-poisonous insect-killing powder, for worms, bugs and caterpillars. Apply with a duster, bellows or powder-gun, at the rate of about 12 lbs. per acre. *Mail weight, 1½ lbs., per lb.* Price 20c. per lb.; 3 lbs., 45c.; 5 lbs., 60c.; 12½ lbs., \$1.35; 100 lbs., \$9.25.

**BUG SHAKER** for applying above, 40c.

**COPPER SOLUTION, AMMONIATED.** A fungicide, for spraying when fruits are nearing maturity, or plants in bloom. One quart is sufficient for 25 gallons of spray. Price, 1 quart, \$1.15; 1 gallon, \$3.50.

**CORN OIL—ANTI-CROW.** Protects newly planted corn from crows. Keeps the birds from damaging your crops by preventive measures. Price, per pint, 25c.; per quart, 40c.

**CUT WORM KILLER.** It has an enticing odor and attracts worms. One pound is sufficient for 175 plants in hills, or 100 feet when in rows. Price, 1-lb. sprinkler box, 25c. (*mail weight 2 lbs.*); 5-lb. tins, \$1.00 (*mail weight, 6 lbs.*); 25-lb. drum, \$4.00; 100-lb. bag, \$12.00.

**FISH OIL SOAP.** (*Whale Oil Soap.*) A wash for insects and eggs on the bark, and for smearing the trunks of trees to prevent worms from crawling up. Price, 25c. per lb. (*mail weight 2 lbs.*); 5-lbs., \$1.10 (*mail weight 6 lbs.*); 10 lbs., \$2.00; 25 lbs., \$4.75.

**FORMALDEHYDE.** A preventive of fungoid diseases as potato scab, smuts, musty corn, damping off of seedlings, club root, etc. The dilution is 1 lb. (1 pint) to 15 or 20 gallons of water and 1 to 2 gallons of this dilution is required for the treatment of a bushel of seed. Price (40 volume %), 1-lb. bottle, 50c.; 5-lb. bottle, at 45c. lb.; 10-lb. bottle, at 40c. lb.; 50-lb. demijohn, at 32c. lb.; 132-lb. carboy, at 28c. lb.

**FUNGINE.** An effective sulphurated spraying remedy for mildew, rust and other blights. Does not stain the foliage. Price, half pint, 40c.; pint, 65c.; quart, \$1.00; gallon, \$3.50.

**HELLEBORE, Powdered White.** Less poisonous than Paris Green and Arsenate of Lead, and safer to use when fruits or vegetables are nearly ripe. Can be used as a powder or dissolved, 1 ounce in 3 gallons of water. Price, 70c. per lb.; 5 lbs., \$3.25 (*mail weight, 1½ lbs. per lb.*).

**KEROSENE MISCELLIE OIL.** Better than Kerosene Emulsion. Is especially valuable against all soft bodied insects. Can be used in place of Nicotine. Contains 80% Kerosene. Dilute 1 part Oil to 16 parts water. Tender plants 1 part to 36 parts water. Price, 1 pint, 40c.; 1 quart, 65c.; 1 gallon, \$1.65c.; 5 gallons, \$6.00.

**LEMON OIL.** Efficient for all sucking insects and soft scales. Apply as a spray or wash. Price,  $\frac{1}{2}$  pint, 30c.; 1 pint, 50c.; quart, 90c.;  $\frac{1}{2}$  gallon, \$1.50; 1 gallon, \$2.50.

**LIME SULPHUR SOLUTION.** For scale insects on trees and such fungus bark diseases as can be treated in winter. Diluted and apply with a spray pump while trees are dormant, in fall, winter or spring. Can be used strong during mid-winter, but earlier or later dilute it 1 gallon to 40 to 60 of water. Price, quart can, 55c.; gallon, \$1.00; 5-gallon can, \$4.50; barrel of 50 gallons, \$17.50.

**NICOTINE.** A remedy for spraying, containing 30 per cent. nicotine. Dilute two teaspoonsful to a gallon of water. For fumigating greenhouses, etc., use a scant tablespoonful to  $\frac{1}{2}$  pints of water, for each pan, vaporize by placing a hot iron in it. This is enough for 600 square feet of floor space. Price, 8-lb. bottle, \$1.00; 4-lb. bottle, \$6.00; 1-lb. bottle, \$1.75;  $\frac{1}{2}$ -lb. bottle, \$1.00, 1¼-oz. bottle, 40c.

**NICO-FUME.** Suspended and lighted, it is the best method of fumigating conservatories for aphis and all insects that succumb to tobacco. One sheet is sufficient for 2000 cubic feet of space. Price, air-tight cans of two dozen sheets, 85c. (*mail weight, 1 lb.*) 1 gross sheets, \$4.00 (*mail weight, 4 lbs.*); 2 gross sheets, \$7.50 (*mail weight, 7 lbs.*).

**PARIS GREEN.** An insoluble, poisonous powder for potato bugs, codling moth, worms, caterpillars, slugs and bugs. Applied as a powder it should be mixed with plaster or flour, 100 parts to 1 part of Paris Green; in solution mix 1 lb. in 200 to 300 gallons of water. Price,  $\frac{1}{2}$  lb., package, 40c.; 1-lb. package, 75c.; 5-lb. package, \$3.50.

**PYROX.** An insecticide and fungicide for eating insects, blights and fungus. Mix with water to apply. Price, 1-lb. bottle, 45c.; 5-lb. crock, \$1.60; 10-lb. crock, \$2.75; 25-lb. crock, \$6.00; 50-lb. keg, \$11.50; 100-lb. keg, \$21.00.

Where the packed mail weight is given the goods may be sent by Parcel Post. If no mail weight is given they can only be sent by express or freight.

## INSECTICIDES—Continued.

**SCALECIDE.** The best spray for San Jose scale, cottony maple scale, &c. It is not poisonous, being a preparation of petroleum that mixes with cold water and is ready to apply. 1 gallon to 20 gallons of water sprayed on trees and bushes will kill every scale that it reaches without injury to tree or fruit if applied while foliage is off. Price, 1 quart, 60c.; 1-gallon can, \$1.45; 5-gallon can, \$5.50; 10-gallon can, \$10.00; 30-gallon barrel, \$27.00.

**SCOTCH SOFT COAL SOOT.** Used in onion drills, radish beds, cabbage grounds, etc., it checks the attacks of grubs or cut worms, and drives away insects that hide in the ground and lay their eggs near the roots. Price, 50-lb. bag, \$2.75; 100-lb. bag, \$5.00

**SLUG SHOT.** A non-poisonous powder insecticide; it requires no mixing or preparation, easily applied and not injurious to the person applying it, or fruits and vegetables. Destroys potato bugs, beetles, green flies, slugs, worms, etc. Price, per keg of 125 lbs. net, \$12.50; per barrel of 250 lbs. net \$22.50; 10-lb. package, \$1.20 (*mail weight, 1 1/2 lbs. per lb.*); 5-lb. package, 65c.; in tin canister with perforated top for applying, 40c. each (*mail weight, 2 lbs.*).

**STICKY TREE CORD.** Tack one end to the tree, pass around it and tack on every 18 inches. In the furrows of rough barked trees, it will prevent caterpillars, etc., from crawling up; lasts all summer. In tubes containing 30 feet. Price, 25c. or \$2.50 per doz. (*mail weight, 1 1/2 lbs. each.*)

**SULPHUR, FLOWERS OF.** Price, 15c. per lb. (*mail weight, 2 lbs.*); 10 lbs., 90c.; 25 lbs. and over, at 8c. per lb. (*mail weight, 1 1/2 lbs. per lb.*)

**THYMO-CRESOL or ENGLISH COLD WATER SHEEP DIP.** A gallon makes a hundred gallons for most uses. A world-famous dip, and remedy for wounds and skin diseases, killing animal parasites, mixing with whitewash for chickenhouses, kennels, etc. Price, quart can, \$1.00; 1-gallon can, \$3.00.

**TOBACCO DUST, FINE.** For green and black aphis, flea-beetles, etc. Splendid fertilizer and preventative for insects in the ground and around roots. Price, 15c. per lb. (*mail weight, 1 1/2 lbs. per lb.*); 5 lbs., 60c.; 10 lbs., \$1.00; 25-lb. bag, \$1.75; 50-lb. bag, \$3.00; 100-lb. bag, \$5.50.

**TOBACCO POWDER, FUMIGATING.** Extra strong dust for fumigating. Price, 25-lb. bag, \$2.00; 50-lb. bag, \$3.50; 100-lb. bag, \$6.00.

## HENDERSON'S FERTILIZERS. PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

## BONE FERTILIZERS

Decompose slowly in the soil; form permanent improvement. With bone there is no danger of burning the plants. Excellent for top-dressing grass and for garden and field crops.

**Quantity Required.** For lawns, pasture and mowing lands,  $\frac{1}{2}$  to 1 ton per acre. For trees and vines, 2 to 4 quarts each. For field and garden crops,  $\frac{3}{4}$  to 1 ton broadcasted and harrowed in. For rose beds, pot plants, etc., one part to about fifty of soil.

**Raw Bone Meal.** This is ground very fine, decomposes rapidly in the soil and is more quickly beneficial.

Price, 1-lb. package, 15c. (*mail weight 2 lbs.*); 5-lb. package, 40c.; 10-lb. package, 75c.; 25-lb. bag, \$1.50; 50-lb. bag, \$2.75; 100-lb. bag, \$4.50.

## IMPORTED ENGLISH FERTILIZERS.

**Thomson's Vine, Plant and Vegetable Manure.** Price, 28-lb. bag, \$3.00; 56-lb. bag, \$5.50; 112-lb. bag, \$10.00.

**Thomson's Special Chrysanthemum and Top-Dressing Manure,** 28-lb. bag, \$4.25; 56-lb. bag, \$8.00.

## HENDERSON'S GARDEN FERTILIZER.

Easily applied by sprinkling over the surface of the soil and raking in. Two or three additional applications, at intervals, will produce magnificent results. A 10-lb. package is sufficient for a space 15x20 ft. for one application, or 500 to 600 lbs. per acre. Instructions on each package.

Price, 5-lb. package, 40c.; (*mail weight 6 lbs.*) 10-lb. package 75c.; (*mail weight 11 lbs.*) 25-lb. bag, \$1.50; 50-lb. bag, \$2.75; 100-lb. bag, \$5.00.

## HENDERSON'S HOUSE PLANT FERTILIZER

A safe, clean and high-grade fertilizer, free from disagreeable odor, prepared especially for feeding plants grown in pots. Detailed directions on each package.

Price, 12-oz. package, sufficient for 25 ordinary-sized plants for one year, 25c. (*mail weight 1 lb.*)

**TREE TANGLEFOOT.** No crawling insect can pass a band of tree tanglefoot. Apply early in the spring—and again in the fall if troubled with the fall canker worm. One pound for 6-foot band 4 inches wide, 1  $\frac{1}{2}$  inch thick. Price, 1-lb. can, 50c.; 3-lb. can, \$1.45; 10-lb. can, \$4.50; 20-lb. can, \$8.75. (*mail weight, 1 1/2 lbs. per lb.*)

**TREE WOUND PAINT** is an insurance against decay, having penetrating, antiseptic and elastic waterproofing qualities. Sun and rain cannot cause the coating to break from the treated wood. Price, quart, 75c.; gallon, \$1.75; 5 gallons, \$7.00.

**VERMINE.** Kills underground insects. Use 1 part vermine to 400 parts water, thoroughly saturating the ground. Price, gill 25c.; half pint, 40c.; pint, 65c.; quart, \$1.00 gallon, \$3.00.

## HENDERSON'S WORM-KILLING GRASS FOOD

Stimulates the grass into rich green growth and quickly eliminates the earth or angle worms that burrow in the turf in unbelievable quantities. We advise all whose grass is not good to apply it at the rate of  $\frac{1}{2}$  pound to a square yard during rainy weather or else water in thoroughly with a hose. The worms will then come to the surface and die. It is a non-poisonous powder not injurious to animal life and can safely be applied at any season of the year. Use one pound for each two square yards.

Price of **HENDERSON's Worm-Killing Grass Food (F.O.B.N.Y.)**:

5 lb. pkg (Mail wt. 6 lbs.)	\$0.85	50 lb. bag	....	\$4.00
10 " " (Mail wt. 11 lbs.)	1.50	100 "	....	7.00
25 " "	2.50			

## HENDERSON'S FLUID WEED DESTROYER

Destroys all weeds, on brick walks, roads etc. It is mixed with water and applied with a watering can or sprinkling cart. If the ground is dry it should first be sprinkled with water, so the Weed Destroyer will not soak away too quickly. Where large weeds and docks are to be destroyed chop off the tops first. Full directions for use with each package.

Quart Can	\$0.60	Dilutes with 30 to 40
Gallon Can	1.75	parts of water, 1 quart
5-Gallon Keg	7.00	makes 7 to 10 gallons.
50-Gallon Barrels	47.50	(Not Mailable.)

## "CLIMAX" LAWN SAND

A non-poisonous, dried chemical, which if evenly distributed 4 ounces per square yard kills weeds by adhering to their broad flat leaves, but falls clear to the roots of grass, and fertilizes the soil.

It is marvelous how quickly the grass improves. Price, 3  $\frac{1}{2}$  lbs., 75c. (*mail weight 4 lbs.*); 7 lbs. \$1.35 (*mail weight 8 lbs.*); will dress about 25 square yards; 14 lbs., \$2.00. 28 lbs., \$3.50; 56 lbs., \$6.00; 1 cwt., \$10.00.

## PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

## PURE ANIMAL MANURES

**Quantity Required.** For garden and field crops, 1 to 2 tons per acre— $\frac{1}{2}$  before plowing, the balance before harrowing. For top-dressing, use 1 ton per acre in fall or early spring.

**Sheep Manure Pulverized.** Price, 50-lb. bag, \$2.00; 100-lb. bag, \$3.50; in packages of 2 lbs., 20c. (*mail weight 3 lbs.*); 5 lbs., 40c.; (*mail weight 6 lbs.*) 10 lbs., 75c.

**Horse Manure Dried.** Price, per 100-lb. bag, \$3.00.

**Cattle Manure Dried.** \$2.75 per 100-lb. bag.

**Ashes, Canada Hard Wood.** Indispensable for all crops requiring potash; very beneficial for garden and field crops, grass lands and lawns. Apply 1 to 2 tons per acre.

Price, per 100-lb. bag, \$2.00; per bbl. of about 200 lbs., \$3.50; per ton of 2,000 lbs., in bbls., \$30.00.

## THE "HENDERSON'S" LAWN ENRICHER

The Henderson Lawn Enricher is clean and odorless. It should be sown broadcast in the spring or fall.

**Quantity Required.** For a new lawn a 10-pound package is sufficient for an area of 300 square feet or 1,000 to 1,500 pounds per acre, or half quantity for renovating an old lawn. Apply if possible just before rain. If applied during the summer use half the quantity, and water in thoroughly with a hose.

## PRICES.—(purchaser paying transit charges.)

5-lb. package (Mail wt. 6 lbs.)	.40	50-lb. bag	....	2.50
10-lb. package (Mail wt. 11 lbs.)	.75	100-lb. bag	....	4.50
25-lb. bag	1.50	100-lb. bag	....	4.50



## A SELECTED LIST FOR SUMMER SOWING, OF HENDERSON'S PERENNIAL FLOWER SEEDS.

The great charm of Perennials lies in their permanence. Once established they are a constant source of pleasure, and among the most interesting plants in our gardens, presenting a variety of size, form and color so great as to fit them for almost every conceivable purpose in the garden. Some may be made to thrive under most unkind conditions while others are adapted to the most skilful cultivation. Many plants of this class, notably *Antirrhinums*, have been so greatly improved by hybridization during recent years, that they may now be had in varying height, and in almost every shade of color. A very large proportion of the Perennial plants that may be grown from seed have great value as cut flowers, particularly so because of their great substance, which enables them to stand up well long after cutting. In the matter of arrangement they offer an almost endless choice. Some grow into majestic plants, which may stand as single specimens, others may be used for conspicuous display in masses or clumps, while others are of great value as border plants. Notwithstanding their individual charm, they are most effective when planted in a mixed border, where by arranging them according to height, color and season of flowering, an attractive display may be had from the earliest days of spring, all through the summer, and even after the first frosts herald the approach of winter. And so, week by week, as sure as the season revolves such a border will present new charms and revive old ones, the beauty of it growing with ever-increasing interest. Perennials are generally raised from seed sown from early spring to about August 1st, in the latitude of New York. Treated thus, they make strong plants which may be planted in a permanent situation early enough in the fall to enable them to winter safely. In some instances plants will flower the first year from seed if sown quite early, but nearly all require a year to reach their best development.

Hardy gardening is becoming more popular in America every year. To meet the increasing demand for seeds of perennial plants we append a list of the leading sorts, which if sown this summer will produce plants that will flower next season. Biennials grow from seed one year, bloom and die the next. Perennials last for several years, blooming annually from seed after the first season. Cultural directions are printed on each packet.

## HENDERSON'S "GARDEN BEAUTIFUL" COLLECTIONS.

### HENDERSON'S "GARDEN BEAUTIFUL" COLLECTION OF HARDY PERENNIAL FLOWER SEEDS FOR GARDENS, BORDERS AND GROUPS

(These flower from seed the second year and thereafter.)

4711 Collection of 25 Kinds, Enumerated Below, \$1.00 } Mailed  
4712 Collection of 12 Kinds, Prefixed X for 50c. } Free

*Achillea*, The Pearl. Double white flowers, borne profusely in summer.  
*Alyssum Saxatile Compacta*. Spring-blooming, hardy yellow Alyssum.  
*Aquilegia or Columbine, Large-Flowering Hybrids*. Beautiful new colors.  
*Asters, Hardy, Large-Flowering Hybrids*. Improved Michaelmas Daisies.  
*Canterbury Bells, Calycanthema, Mixed*. The "Cup and Saucer" type.  
*Candytuft*, *Gibraltarica*. Rose and white hardy Candytuft.  
*Carnation, Hardy Garden, Mixed Colors*. Double fragrant flowers.  
*Coreopsis Lanceolata, Harvest Moon*. Large golden-yellow flowers.  
*Delphinium, Large Single Hybrids, Mixed Colors*. Perennial Larkspur.  
*Dianthus Plumarius, Double Mixed*. The Pheasant's Eye or Grass Pinks.  
*Digitalis Gloxinoides, Mixed*. The finest strain of Foxglove, various colors.  
*Gaillardia Grandiflora Maxima, Mixed*. Flowers, red, yellow, etc.  
*Hollyhock, Extra Choice Double, Mixed Colors*. Many beautiful colors.  
*Lobelia, Hardy Hybrids, Mixed*. Improved types of the Cardinal Flower.  
*Pentstemon, Finest Mixed*. Large Foxglove-like flowers of brilliant colors.  
*Phlox, Hardy Large-Flowering Hybrids, Mixed*. Heads of large flowers.  
*Platycodon Mariesii, Mixed Colors*. Compact bushes with bell-shaped flowers.  
*Poppy, Hardy Oriental Hybrids, Mixed*. Immense flowers, 6 inches across.

*Pyrethrum, Large-Flowering Hybrids, Mixed*. Single Daisy-like flowers.  
*Scabiosa Caucasica*. Saucer shaped flowers, of lovely light blue.  
*Stokesia Cyanea*. The Hardy Cornflower Aster, blue flowers, 4 inches across.  
*Sweet Rocket, Mixed Colors*. Fragrant purple or white flowers.  
*Sweet William, Large-Flowering, Single, Mixed*. Rich colors.  
*Tritoma Uvaria Grandiflora (Red-Hot Poker)*. Spikes of fire-red flowers.  
*Wall-Flower, Double Large-Flowering, Mixed Colors*. Fragrant flowers.

### HENDERSON'S "GARDEN BEAUTIFUL" COLLECTION OF SEEDS OF HARDY CLIMBING PLANTS

(These are Perennials, flowering after the first year.)

4731 Collection of 8 Kinds, Enumerated Below, 50 Cents.

*Ampelopsis Veitchii*. The Japanese or Boston Ivy, clings to walls, etc. 30 ft.  
*Aristolochia Siphon*. Dutchman's Pipe Vine, luxuriant climber. 30 feet.  
*Asparagus Verticillatus*. Feathery foliage, scarlet berries. 10 feet.  
*Bignonia Grandiflora*. Trumpet Creeper clusters of orange-red flowers. 40 ft.  
*Clematis Paniculata*. A mass of white star-like flowers in autumn. 30 ft.  
*Kudzu Vine*. Grows rapidly; Pea-shaped, purple flowers. 40 to 50 feet.  
*Lathyrus Latifolius, Mixed Everlasting Pea*. Sweet Pea-like flowers. 6 to 8 ft.  
*Wistaria Sinensis*. Pendant clusters of blue flowers. 25 to 40 feet.

### Henderson's GARDEN GUIDE AND RECORD

described on page 2 of cover

Free with orders of \$2.00 or over

Includes Growing Flowers from Seeds Aid to Selection for Different Purposes, List of Fragrant Flowers, etc.



ARISTOLOCHIA OR DUTCHMAN'S PIPE

PERENNIAL  
FLOWER  
SEEDS  
FOR  
FALL AND  
SUMMER  
SOWING



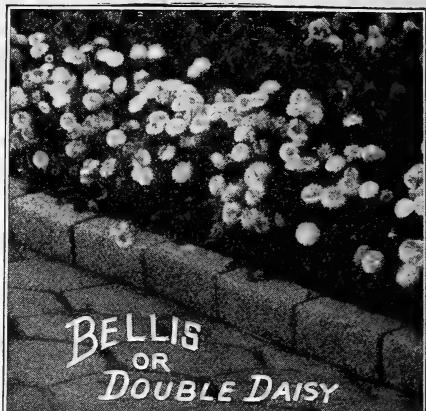
DOUBLE AQUILEGIA

	Pkt.	Pkt.
<b>ACHILLEA</b> , The Pearl. A greatly improved variety of this old, hardy garden favorite <i>A. Ptarmica fl. fl.</i>		
The Pearl produces larger double pure white flowers in clusters on long stems from spring until frost. Splendid cut flower; 2 feet.....	10	
<b>ALYSSUM</b> , Saxatile Compacta. A beautiful dwarf hardy perennial for spring beds or edging a flower border. The flowers are produced in large clusters and are of a deep pure yellow; 9/4 foot.....	10	
<b>AMPELOPSIS</b> Veitchii. Boston or Japanese Ivy, valuable hardy climber, clinging to wood, stone or brick walls; dense ivy-green foliage, changing to red in autumn; 30 feet.....	10	
<b>ANCHUSA</b> Italica (Dropmore). A fine, large, hardy herbaceous plant; 4 to 5 feet high, with flowers of lovely Gentian blue.....	15	
<b>ANEMONES</b> (A. St. Brigid.) These beautiful Irish Poppy-flowered varieties produce in abundance large single, semi-double and double flowers 3 to 5 inches across, in an endless variety of colors, from maroon and brightest scarlet to flesh-pink and from lilac to purple. For cutting they are unsurpassed, and in the garden they flower until after frost; hardy perennials flowering from seed the second year and thereafter.....	10	
<b>ANTIRRHINUM</b> , Giant Flowering. These improved "Snapdragons" form brilliant garden beds, flowering profusely and continuously during the summer and fall. They grow about 2 feet high. The flowers are nearly double the size of the older sorts.		
Tall Giant-Flowering Mixed. Per 1000 seeds 30c....	15	
The following separate colors..... each	15	
Blood-Red Maroon		
Deep Rose Pink Orange-Scarlet. White throat		
Deep Scarlet White		
Light Pink Yellow		
Collection, 1 pkt. each 8 separate colors .....	1.00	
<b>Semi-Dwarf Giant-Flowering.</b> These semi-dwarf varieties produce flowers as large as the tall sorts, while the plants are of compact, bushy growth, only a foot high, and are completely covered with flowers throughout summer and fall.		
Aibino. Cream flushed pink.....	10	
Picturatum. Blotched and spotted.....	10	
The Bride. Pure white.....	10	
Scarlet.....	10	
Yellow.....	10	
Coral-Rose.....	10	
Mixed Colors.....	10	
Collection, 1 pkt. each of above 6 separate colors.....	45	
<b>AQUILEGIA</b> (Columbine). Hardy garden perennials. Very effective when grown in beds or the herbaceous border. Height 1 1/2 to 3 feet.		
Henderson's American Hybrid Columbine. The plants are robust; the flower stems, often 40 inches in height, carry clusters of immense long-spurred, single flowers. The colors are superb.....	15	
Single, Large-Flowering, Mixed colors.....	55	
<b>AQUILEGIA</b> —Continued.		
Double-Flowering, Long Spurred Hybrids. Beautiful long-spurred, large, double flowers.....	25	
Bell-Flowered Columbine. ( <i>Aquilegia Clemataquilla</i> ) A beautiful new spurless type producing large open bell-shaped flowers of many colors, shades and combinations, including sky blue, pink, deep blue, purple, violet, lavender, white, flesh, rose, maroon, salmon, etc., in mixture.....	25	
Chrysanth. The beautiful long-spurred yellow.....	10	
Coerulea Hybrida. Rocky Mountain variety; long-spurred flowers of white and blue.....	10	
<b>ARISTOLOCHIA</b> Siphon. Dutchman's Pipe Vine. Hardy climber; has large leaves, making dense shade; flowers mottled yellow and brown 30 feet.....	10	
<b>ASPARAGUS</b> Verticillatus. Hardy climber, with feathery foliage and scarlet berries; 10 ft.....	10	
<b>ASTER</b> , Hardy, New Large Flowering.		
These "Michaelmas Daisies" are splendid subjects for permanent positions in the herbaceous border where they form large bushy clumps, 1 1/2 to 2 feet high, and are covered with clusters of large single flowers during the late summer months.		
White Queen. Pure white single flowers.....	15	
Alpinus Goliath. Lilac with yellow center.....	15	
Hardy Asters, Mixed Colors. New Hybrids.....	10	
<b>BELLIS</b> , or Double Daisy. Greatly improved varieties of the popular "Double Daisies." Admirably adapted for edgings, borders and low beds. It is preferable to sow the plants in cold frames in fall and winter; 1/2 foot.		
Longfellow. Extra large double rose-pink flowers....	10	
Snowball. Large, double, pure white flowers....	10	
Red. Densely double flowers, glowing rosy red....	10	
Mixed Colors.....	10	
Monstrosa. These new "Double" daisies surpass all strains of this popular hardy plant in strong robust growth and abundance of large bloom. Each plant produces 12 to 15 flowers that measure two inches across, carried on long strong stems.		
Monstrosa Double White.....	20	
" Double Rose .....	20	
" Double Mixed .....	20	
<b>BIGNONIA</b> Grandiflora. The hardy trumpet Creeper, clusters of large orange-red flowers picturesquely effective on arbors, old trees, etc.; 40 to 50 feet....	10	
<b>BOLTONIA</b> Asteroides. Hardy perennial, growing 6 feet in height, producing single white Marguerite-like flowers during summer and autumn .....	10	
<b>CAMPANULA</b> Bell-Flower.		
Campanula Persicifolia grandiflora. (Peach-leaved Bell-Flowers), handsome, hardy perennials, throwing up spikes 2 or 3 feet high; bearing during summer large, bell-shaped blossoms of blue or white.		
White.....	10	
Blue .....	10	
<b>Campanula pyramidalis</b> . Mixed Colors. The favorite "Chimney Bell-Flower," a hardy biennial—tall spikes of bell-shaped blossoms in shades of blue and white; height, 4 to 5 feet.....	10	

Cultural Instructions are printed on all packets of Henderson's Flower Seeds.

HARDY  
ASTER

PERENNIAL  
FLOWER  
SEEDS  
FOR  
SUMMER  
SOWING  
(Continued)

BELLIS  
OR  
Double Daisy

## CAMPANULA Bell Flower—Continued.

Pkt.

**Campanula pyramidalis compacta.** Mixed Colors. Dwarfer and more compact in growth than the old pyramidalis—attaining a height of only 2 to 3 feet. They bloom freely and the flowers are equally as large; colors, various shades of blue and white. . . . . 10

**CANDYTUFT, Hardy.** Compact-growing, hardy perennial plants, admirably adapted for permanent front rows of borders or for low clumps or beds.

**Gibraltar.** Snowy, large-growing, red and rosy-white; 1 to 2 feet. . . . . 10

**Sempervirens.** Completely covered with heads of white flowers in spring; 1 foot. . . . . 15

**CANTERBURY BELLS.** Hardy biennial, 2½ feet high producing large, bell-shaped flowers of exquisite colors. The "Cup and Saucer" varieties (*Campanula Calycanthema*) produce beautiful single flowers 3 in. in length, saucers 3 to 4 inches across

**Media (Canterbury Bells) single mixed.** . . . . . 05  
The following separate colors, single blue, rose or white, each. . . . . 10

**Media double mixed.** . . . . . 10

The following separate colors, double white, double rose, or double blue, each. . . . . 10

**Calycanthema mixed "Cup and Saucer" varieties.** . . . . . 10

The following separate colors, calycanthema blue, striped, rose or white, each. . . . . 10

**CERASTIUM Tomentosum** (Snow in Summer). A procumbent, hardy perennial, having white foliage and a profusion of small white flowers. Very pretty as an edging plant. . . . . 15

**CARNATION, Hardy Garden, Double Mixed.** Will produce large clumps that will stand out over winter and bloom throughout the following summer and fall. Extra fine strain. Per 1,000 seeds, 75c. . . . . 10

**CHRYSANTHEMUM Single Hardy.** The large flowering single white hardy Daisy—*Chrysanthemum leucanthemum maximum*—long considered one of our finest hardy perennials for garden decoration. King Edward forms a bushy, plant 18 inches high, producing, during late summer and fall, magnificent large white flowers, 3 to 4 inches across. . . . . 10

**Little Gem.** A new dwarf variety, only 15 to 18 inches high, of even bushy growth; blooming very early, and bearing large, white flowers on long stems. Splendid for herbaceous borders. . . . . 25

**Shasta Daisy.** Produces pure white flowers 4 inches or more across, on stems 1½ to 2 feet in length. Plants, 2 to 2½ feet in height. . . . . 15

**CLEMATIS paniculata.** One of the finest hardy perennial climbers. Covered from the ground to the summit with pure white fragrant flowers. 12 feet. . . . . 10

**Flammula.** Fragrant feathery white flowers in clusters, climbing 25 to 30 feet. . . . . 05

**Large-Flowering, Mixed (Jackman's).** Flowers 3 to 4 inches across of charming shades of blue, white, purple, lavender, etc.; 10 to 12 feet. . . . . 10

**COREOPSIS Harvest Moon.** One of the finest hardy garden plants grown, forming large clumps 2 to 3 feet high. It produces immense, long-stemmed, rich yellow flowers, shaded with orange, flowering in profusion for a long period. . . . . 10

## COREOPSIS—Continued.

Pkt.

**El Dorado.** The long-lasting flowers are simply perfect, measuring 3 inches and over in diameter, and are borne on stalks 15 to 18 inches in length. Color, brilliant golden yellow. Compact, bushy plants—about 2 feet high—blooming abundantly during summer and fall. . . . . 10

**COWSLIP.** (*Primula veris*). This beautiful spring-flowering dwarf hardy perennial bears clusters of fragrant flowers of various colors, as yellow-brown, edged yellow, etc. They are particularly pretty when grown in good sized colonies in partially shaded situations. Height, 6 inches. . . . . 10

**DELPHINIUM, or Hardy Larkspur.**

Giant Single and Double Superb Hybrids. A splendid race of these popular hardy garden plants. The blossoms are of immense size, single, semi-double and double, dressing the graceful, towering spikes for from 2 to 5 feet of their length. The colors range from white and lavender through every shade of blue from azure to indigo and purple, several shades being blended in some of the varieties. The plants grow from 6 to 10 feet in height and are very desirable and valuable in the garden during the spring and early summer. These improved hybrids should, to get the best effect, be planted in groups dotted here and there at intervals in the herbaceous border. The lighter colors look particularly well when planted in front of shrubbery where they will be thrown into strong relief. Delphiniums are also very beautiful for house decoration shown in vases. By cutting off the spikes immediately after flowering, these Delphiniums may be had in bloom for several months. **Mixed Colors.** Per 1000 seeds \$1.00. . . . . 25

**Hybridum Belladonna Fanny Stormonth.** A greatly improved variety of the "Belladonna" Larkspur; early and continuous blooming, light azure-blue color, flowers larger, on stems 5 to 7 feet high. . . . . 15

**Formosum.** Deep blue, white centre; 2 to 3 feet. . . . . 05

**Single, Fine Mixed Colors.** . . . . . 05

**DIANTHUS, Hardy, Grass or Spice Pinks.** Dwarf Large Double-Flowering Grass or Spice Pinks. (*Dianthus Plumarius Nanus, fl. pl.*) In these new Pinks the color refers to the center of the flowers, the remainder being white or blush with a band of color near the margin; the colors include blood-red, rose, maroon, purple, pink, blush, spotted, laced, variegated, etc. They are perennial garden plants, about 1 foot high, vigorous, hardy, and flower profusely during spring and early summer. The flowers are large, double, beautifully fringed, and emit a clove-like perfume. **Mixed colors.** . . . . . 20

**Perfection Pinks.** A superb strain of the hardy Grass Pink—*Dianthus Plumarius*—bearing enormous double flowers of perfect form. Smooth round petals of pure white, edged with deep crimson, very fragrant. . . . . 15

**Crown "Grass" Pinks.** A new race with branching flower stalks 10 to 12 inches high, carrying large fragrant single, and semi-double flowers with fringed petals; colors, white, carmine, rose lilac, etc. Each flower marked in the centre with a crimson or purple crown. They flower from May to July. . . . . 15

We deliver FREE all Flower Seeds or Vegetable Seeds by the pkt., oz., ¼-lb. and pound.



LUPINUS

PERENNIAL  
FLOWER  
SEEDS  
FOR  
SUMMER  
SOWING  
(Continued)

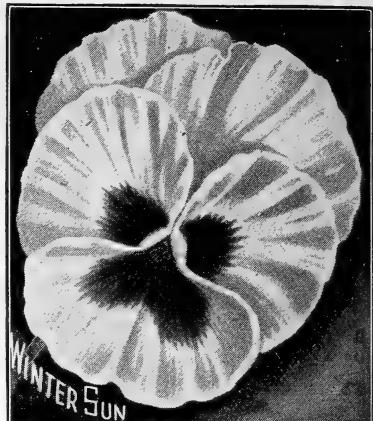


MYOSOTIS—RUTH FISCHER

	PKT.		PKT.
<b>DIANTHUS</b> , Hardy, Grass or Spice Pinks—Continued.			
<b>Maiden Pinks.</b> <i>Dianthus deltoides</i> . A dwarf type of hardy Pinks. Colors red, rose and white, all adorned with a central zone of crimson. . . . .	10		
<b>Plumarius</b> , double mixed. The favorite Pheasant's Eye or Grass Pinks 1 foot. . . . .	10		
<b>DIGITALIS</b> or Foxglove. <i>Gloxinia</i> -Flowered. These improved Foxgloves are very showy, hardy plants; they are easy to grow and produce freely, spikes, 4 to 5 feet high, well furnished with large Gloxinia-like flowers of various colors, including white, cream, rose, red and other shades.			
White, spotted. . . . .	10	Purple, spotted. . . . .	10
Lilac, spotted. . . . .	10	Rose, spotted. . . . .	10
Mixed colors. ( <i>Gloxinoides</i> ). . . . .	10		
<b>Grandiflora.</b> Yellow. Very charming flowers of soft chrome-yellow on 3-foot spikes. . . . .	10		
<b>Monstrosa.</b> Long spikes of large flowers, many of which are beautifully spotted, etc., but the striking feature of this strain is the enormous bell-shaped blossom that tops each spike of flowers. Mixed colors	15		
<b>GAILLARDIA</b> Giant Hardy Hybrid. The flowers often 4 to 5 inches across, and very highly colored, as scarlet with gold edge, blood-red with yellow edge, yellow with orange disk, golden with scarlet border pure yellow, fiery-crimson and many others. These magnificent Gaillardias are hardy perennials, compact in growth and produce a constant succession of flowers summer and fall. Mixed colors. . . . .	10		
<b>GYPSOPHILA</b> "Paris Market." An improved large-flowering variety of <i>G. elegans</i> . It forms branching plants about 2 feet high, fairly smothered all summer long with graceful clusters of snow-white flowers half an inch across. A pretty garden annual, and of great value for bouquets, vases, etc. . . . .	10		
Double-flowering ( <i>G. paniculata</i> fl. pl.). A new type bearing racemes of double white flowers which last long in perfection; 50% will come double, the balance single-flowering plants. . . . .	25		
<b>HOLLYHOCK</b> Hardy Double. Grand summer and autumn flowering plants, bearing long spikes of double flowers 3 to 4 inches across. They are old inhabitants of our gardens, but are now so improved in doubleness and enlarged in size, as to be revelations of beauty to those who have not seen these improved sorts. Hardy biennials 5 to 8 ft. high...			
Double Canary-yellow. . . . .			
" Crimson. . . . .	10	Double Maroon. . . . .	10
" Deep Rose. . . . .	10	" Pink. . . . .	10
" Lavender. . . . .	10	" Purple. . . . .	10
" Black. . . . .	10	" White. . . . .	10
" White Violet Center. . . . .	10		
" Paling Belle." A very fine form of Hollyhock bearing large double flowers of a charming shade of silvery-pink. . . . .	30		
<b>Extra Choice Double Mixed.</b> From named varieties. 1000 seeds, 75c. . . . .	10		
<b>Imported Collections of Double Hardy Hollyhocks.</b> 6 separate colors, 40c.; 12 separate colors 75c. . . . .			
<b>Single-flowering Hollyhocks</b> , mixed colors, 1000 seeds, 50c. . . . .	05		
<b>Allegheny Hollyhocks.</b> Mixed colors. Semi-double fringed flowers. 1000 seeds, 60c. . . . .	10		
<b>HIBISCUS</b> , Hardy Varieties (Marsh Mallows). These are showy hardy bushy plants, 3 feet high, bearing immense bowl-like flowers often 6 inches across.			
Rose-pink with white base. . . . .	10		
Giant Yellow. Yellow, garnet throat. . . . .	10		
<b>INCARVILLEA</b> <i>Delavayi</i> . Beautiful plant with long, flexible branches, strong flower stalks 3 ft. high, bearing large tubular flowers of rosy carnine, spotted yellow; throat brown. . . . .	15		
<b>KUDZU VINE</b> , <i>Pueraria Thunbergiana</i> . A twining vine making a growth of 40 to 50 feet in one season hardy, though the vine dies down every winter in the North. Purple pea-shaped flowers in clusters, borne late in the season. . . . .	10		
<b>LATHYRUS</b> <i>Latifolius</i> , Hardy Everlasting Peas. These climb 6 to 8 feet high when trained on a trellis; the flowers are borne in large clusters. They are adapted to rough places, to scramble over rocks and bushes; splendid cut flowers.			
Red. . . . .	10		
White Pearl. Large pure white flowers. . . . .	15		
Mixed colors. . . . .	10		
<b>LAVENDER</b> . Well-known hardy perennial, bearing long spikes of fragrant blue flowers; 1 to 2 feet. . . . .	05		
<b>LUNARIA</b> <i>Biennis</i> or "Honesty." Hardy biennial especially useful in shady, damp places; the flowers of purple, crimson or white are followed by silvery transparent seed pods; height, 2 feet. Mixed colors. . . . .	10		
<b>LOBELIA</b> , Hardy. Tall, hardy perennials with long spikes of brilliant flowers. Fine for permanent beds and borders. They thrive in shady situations; 2 to 4 feet. Mixed colors. . . . .	10		
Cardinalis. (Cardinal Flower.) Long spikes of intense scarlet flowers. . . . .	10		
<b>LUPINUS</b> , New Hardy Hybrids. Showy, hardy perennials 3 to 4 feet in height producing during summer, long racemes of pea-like flowers in a variety of colors (See engraving). . . . .	10		
<b>LYCHNIS</b> <i>Chalcedonica</i> . The scarlet Lychnis, an old favorite, bearing heads of bright scarlet flowers; very hardy; 3 to 4 feet. . . . .	05		
<b>MYOSOTIS</b> or Forget-Me-Nots. Well-known perennials. "Blue Eyes" (Novelty). A robust-growing variety of fine constitution, exceedingly free-flowering and bears its flowers well on the top. It is 12 inches high, upright and compact in growth, each plant making a bouquet of Forget-Me-Nots. The color is a telling bright blue and when seen in the mass, as a bed, or in rows, is particularly effective. . . . .	25		
Ruth Fischer. The plant is compact with glossy dark green foliage, above which are carried large clusters of immense pure Forget-me-not blue flowers, larger than those of any other known Forget-me-not. . . . .	15		
<b>Triumph.</b> A large-flowering Forget-me-not. The flowers are large and borne in clusters on long stems. Color, bright turquoise-blue with yellow eye. . . . .			
<b>Palustris</b> , Large-flowering. Dark-blue; 1 foot. . . . .	10		
Mixed colors. . . . .			
<b>Victoria</b> . Grand "Forget-me-nots" forming round, compact bushes about 8 inches high. . . . .			
Blue. . . . .	10	Mixed colors. . . . .	10



PERENNIAL  
FLOWER  
SEEDS  
FOR  
FALL AND  
SUMMER  
SOWING  
(Continued)



SELECTED STRAINS OF PANSY SEEDS FOR FALL SOWING.

HENDERSON'S MAMMOTH BUTTERFLY PANSIES

Have been famous many years for their superior size, perfection of form, marvelous diversity of colorings, superb markings as well as for robust plant growth—deep rooting frost and heat resisting qualities and freedom of bloom. (See engraving). Mixed Colors, 15c. per pkt., 2 pkts. for 25c. 75c. per 1000 seeds.

HENDERSON'S GIANT RUFFLED PANSIES.

A remarkable strain of Giant Pansies, the flowers of which are so large and full that the broad petals seem to be "gathered" to the stem, causing them to be undulated and fluted from center to circumference, not unlike "frilled" velvet. They are nearly all five-blotted and contain rich combinations of coloring. Mixed Colors. Pkt. 15c. 2 pkts. for 25c. Per 1,000 seeds, 75c.

HENDERSON'S MAMMOTH PARISIAN PANSIES.

Distinguished by magnificent and varied colors and strong markings. There is usually a large "blotch" on each of the five petals, with a surrounding band of some strikingly contrasting color, over which is thrown a cobweb-like netting of yet another hue. The combinations are composed of shades of cinnamon, violet, canary, orange-yellow, black, garnet, light blue, indigo, cream, etc. Mixed Colors. Pkt. 15c. 2 pkts. for 25c. Per 1,000 seeds, 75c.

HENDERSON'S GIANT MOTTLED PANSIES

The flowers well-grown measure 3 to 3 1/2 inches across—and of most gorgeous effects, blotched, spotted, marbled, veined, striped and blended, colors passing through reds, rose, pink, white, purple in beautiful and indescribable variegation. Mixed Colors. Pkt. 15c. 2 pkts. for 25c. Per 1,000 seeds, 75c.

VARIOUS POPULAR STRAINS OF PANSIES

Per 1,000 seeds Pkt.

Bedding. Finest mixed.....	25	.05
Cassier's 5 Blotched Odier. Mixed.....	75	.15
Bugnot's Large Strained French. Mixed.....	75	.15
English Choicest Show. Mixed.....	75	.25

HENDERSON'S SUPERIOR  
GIANT TRIMARDEAU PANSIES.

Years of scientific culture, hybridization and selection in raising Pansies have gradually evolved a superior race of luxuriant, robust growth and deep-rooting, drought-withstanding qualities; the flowers have also correspondingly improved in size, substance, form and colors.

Customer's selection of any three 10c. pkts. for 25c.

Per 1,000 seeds Pkt.

Giant Trimardeau, mixed colors. Per oz. \$4.00	.50	.10
" Canary Bird. Pure yellow no blotches .....	.60	.10
" Indigo. Blotched black.....	.60	.10
" King of Blacks. Coal black.....	.60	.10
" Lord Beaconsfield. Lavender and violet .....	.60	.10
" Madame Perret. Light colors marbled carmine purple.....	.75	.15
" Mercury. Blackish purple.....	.75	.15
" Morning Dawn. Vermillion and golden chamois.....	.75	.10

TRIMARDEAU PANSIES—Continued. Per 1000 seeds Pkt.

" Orchid. Delicate colorings, cream, mauve, blush, etc.....	.75	.15
" Peacock, (Gloriosa). Garnet, cream and blue.....	.60	.10
" Pres. Carnot. White, five large violet blotches.....	.60	.10
" Purple. ( <i>atropurpurea</i> ).....	.60	.10
" Snow Queen. Pure white, no blotches.....	.60	.10
" Striped. White, blue, violet and chocolate.....	.60	.10
" Vulcan. Frilled flowers of blood red blotched purple.....	.60	.10
" White Treasure. White with violet blotches.....	.60	.10
" Yellow. Mahogany blotches.....	.60	.10

Collection of 12 varieties.....

1.00

WORLD RECORD PANSIES. Hardy Early-Flowering.

This new race of pansies promises to be an important introduction on account of the extreme hardiness of the plants and in consequence their earliness in flowering. With slight protection, such as meadow hay, straw or similar material, full grown plants winter over in the open ground—even in very cold latitudes—and commence flowering in early spring with the Snowdrop and Crocus, or from four to six weeks earlier than other pansies. In fact, we gathered flowers several times during the past winter by lifting the snow-covered hay. They are sweetly perfumed.

Pkt.

Celestial Queen. Bright sky-blue, tinted lavender, small yellow eye.....	.25
--	-----

" Ice King. Silvery white, with deep blue blotch on lower petals.....	.25
---	-----

March Beauty. Rich velvety violet-purple, with yellow eye.....	.25
--	-----

Winter Sun. Golden Yellow with maroon blotch on lower petals. (See engraving.) .....	.25
--	-----

World Record Pansies, Mixed Colors.....	.25
---	-----

Customer's Selection. Any two pkts. for 40c. or the collection of 5 pkts. for \$1.00	.25
--	-----

PENTSTEMON. "Sensation." The graceful spikes, about 2 feet high, are bedecked with flowers, two inches across, from July until frost. The colors vary from pink to scarlet and maroon, all beautifully blotched and veined; large white throats .....

.10

Rocky Mountain Pentstemon (*P. Cyananthus*). A lovely and showy species. Compact spikes of lovely azure-blue flowers.....

.15

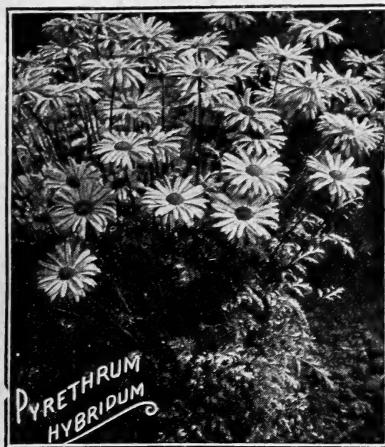
PLATYCODON Grandiflora. Chinese Bell Flower. Hardy perennials, bearing large bell-shaped white or blue flowers; very handsome for garden decoration; 1 1/2 feet. The *Nana Compacta* type form sturdy little bushes about 12 inches high.

Grandiflora. Mixed colors. Blue and white.....

.10

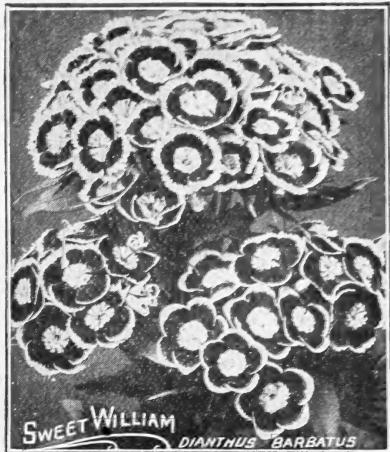
*Nana Compacta*. Mixed colors. Blue and white.....

.10



Pyrethrum  
Hybridum

PERENNIAL  
FLOWER  
SEEDS  
FOR  
SUMMER  
SOWING  
(Continued)



SWEET WILLIAM  
DIANTHUS BARBATUS

**POLYANTHUS** *Primula Elatior*. An early-blooming Primrose for spring flower beds or pot culture; the large umbels of flowers edged and laced are borne on stalks 8 inches tall. Mixed colors..... 10

**POPPY GIANT ORIENTAL**. These hold an unrivaled position for effectiveness in hardy borders; height 2 to 3 feet; flowers immense, often 6 inches across.

**Colosseum**. Flowers 8 inches across. Dark scarlet, with a black spot at the base of each petal..... 15

**Beauty of Livermere**. Crimson with black blotch..... 15

**Princess Victoria Louise**. Salmon-scarlet..... 15

**Salmon Queen**. Salmon-yellow..... 15

**Rembrandt**. Orange-scarlet..... 15

**Dark Scarlet**..... 15

**Mixed Colors**. Per 1,000 seeds, 50c..... 10

**POPPY ICELAND** (*Papaver nudicaule*). The fragrant, crushed satin-like flowers are produced in never-ceasing succession from the beginning of June to October; fine for cutting

**Yellow**..... 10 **White**..... 10

**Scarlet**..... 10

**Mixed Colors**. Per 1,000 seeds, 50c..... 10

**Storrie's New Iceland Poppies**. This new strain contains many new colors and shades, including blush, salmon, coral-pink, orange-rose, white, lemon, orange, striped, flecked, edged, blended, etc.

**Mixed Colors**. Per 1,000 seeds, 75c..... 15

**HARDY BLUE PRIMROSE**—*Primula Acaulis*

A beautiful blue-flowered type of the popular old English yellow Primrose. Equally as hardy, and a fitting companion for naturalizing among shrubs, in turf or the herbaceous border..... 25

**PRIMULA JAPONICA HYBRIDS**. These grand, new Japan Primroses are perfectly hardy—forming stately, robust plants that carry large trusses of bloom. The colors range from pure white through shades of pink to deep crimson..... 25

**PYRETHRUM Hybridum**. Hardy herbaceous plants, flowers 3 to 4 inches across, of rose, flesh, pink, white crimson, etc.; borne on stems 2 feet high.

**Single, Large-flowering**. Mixed colors..... 10

**Double, Large-flowering**. Mixed colors..... 25

**SCABIOSA** Hardy Varieties.

**Caucasica Perfecta**. Dense, spreading plants 2 or 3 feet high. Semi-double flowers, 3 to 4 inches across poised on stalks 1½ to 2 feet long. The coloring is a beautiful lilac-blue..... 15

**Caucasica Alba**. A large, pure white variety; counterpart of the above; beautiful; the flowers, 3 to 4 inches across, on long stems, are exquisite for vases, lasting a long time in water, and they are borne freely like those of its blue-colored parent from early summer to late fall..... 25

**Japonica**. New Scabious from Japan, 2½ feet in height and breadth, with elegant light green foliage. Flowers 2 inches across, on long wiry stems 15 inches in length, of a beautiful mauve blue..... 10

PKT.

**STOKESIA**, The Hardy Cornflower. The plants grow from 18 to 24 inches high and begin flowering in July, continuing without interruption till late in October. The flowers, 4 to 5 inches across, on long stems, are valuable for cutting

**Cyanea Blue**. Lavender-blue..... 10

**Cyanea Alba**. New; pure white flowers..... 10

**Hybrids, Mixed Colors**, include some charming shades of blue, lavender, violet, white, and a new pink variety..... 15

**SWEET ROCKET** or Dames Violet. Favorite, hardy, herbaceous perennials—for the garden border. The plants form clumps 2 to 3 feet in height covered with showy terminal spikes of flowers resembling Stocks. The colors range from white through lilac to pink and purple; very productive of bloom and splendid for cut flowers. Mixed Colors..... 10

**SWEET WILLIAM** (*Dianthus barbatus*). One of the finest of our hardy garden plants, of easy culture, thriving in any good garden soil. The plants grow about 1 foot high and form fine clumps

**Henderson's Perfection**. Our improved Perfection strains produce in great profusion large florets in a great variety of extremely rich colors

**Extra choice Single varieties mixed**..... 10

**Double large-flowering mixed**. Extra choice..... 15

**Pink Beauty**. Large single flowers of pure pink..... 15

**Scarlet Beauty**. Large single scarlet flowers..... 15

**Harlequin**. Large flowers of several colors produced on one plant. Some heads will be all crimson, others all pink, white, etc., but usually florets of different colors will be borne in one head..... 15

**TRITOMA UVARIA**. "Red Hot Poker Plant." Splendid hardy perennial plants, for clumps on lawn or among shrubbery, where the tall spikes of orange red flowers make an effective display from August until November. 4 to 5 feet..... 10

**New Hybrid Tritomas**. Showy, hardy plants, producing the brightest flowers of the autumn garden. They grow from seed and flower well the second year commencing in May and continuing through the summer and fall. They range in color through shades of yellow to orange and from salmon-pink, coral red, etc., to crimson. The plants vary in height from 18 inches to 6 feet..... 25

**PANSY-VIOLETS**, Tufted or Bedding. (*Viola cornuta grandiflora hybrida*.) Pansy-like blossoms, 2 to 2½ inches across, of great substance and brilliant colors. The plants are hardy, forming tufted clumps, with myriads of flowers from spring until cold weather. Many are scented. Mixed colors..... 15

**WALL FLOWER**. These perennials make nice bushy plants, 1½ feet high, bearing in the spring long spikes of fragrant flowers of various colors, crimson, purple, yellow apricot, mahogany, pink, etc.

**Large Double**. Mixed colors..... 15

**Large Single**. Mixed colors..... 10

**Collection** of 6 separate Double Wall Flowers..... 50

**WISTARIA**, Chinese. Of luxuriant and rapid growth, bearing in the spring immense panicles of flowers produced in great profusion, 75 feet. Blue..... 10

# Giant Spencer Sweet Peas for Autumn Sowing.

## New Giant Early Flowering Spencer Sweet Peas.

Bloom 4 Weeks Earlier than the Late Spencers, and Under Congenial Conditions Flower Continuously for 4 months.

The plants of this new race are of strong constitution, vigorous growth, profuse and bloom continuous for about four months, grown under congenial conditions. Grown in the open ground they begin flowering in about 106 days from seed sowing or fully four weeks sooner than late flowering Sweet Peas sown at the same time, and they continue to flower in profusion for fully 4 months. It is predicted by Sweet Pea authorities that this race will supplant all other early and late flowering Sweet Peas for winter flowering under glass, and also for open ground culture in our Southern States—sown preferably in fall or winter. Condensed cultural instructions for both garden culture under northern and southern conditions and for winter flowering under glass are given in Henderson's leaflet "How to Grow Sweet Peas to Perfection" free to customers.

### VARIETIES OF NEW GIANT EARLY FLOWERING SPENCER SWEET PEAS

	Per Pkt.	Per Oz.
Early Helen Lewis Spencer.	A rich apricot pink or salmon colored flower; large, long-stemmed flowers.	15 1.00
Early Heather Bell.	A rich mauve-lavender.	25 1.00
Early Melody.	A deep shade of rose-pink. Closely resembling the late flowering "Countess Spencer".	25 1.00
Early Morning Star.	Deep orange-scarlet or flame color with rich orange-pink wings.	25 1.00
Early President Wilson Spencer.	Bright carmine-rose, similar in coloring, size and form of flower to Marie Corelli.	15 1.00
Early Snowflake.	Pure white and the best white early flowering white seeded Spencer.	25 1.00
Early Song Bird.	A soft shade of pale pink similar to the late varieties "Florence Morse" and "Lady Evelyn Eyre".	25 1.00
Early Spring Maid.	An exquisite light cream-pink that is a soft pink over a cream ground color.	25 1.00
"Yarrawa."	This variety from Australia has proven its adaptability to American conditions. In our trials it commenced flowering freely two weeks before other large waved Sweet Peas and three to four weeks earlier than some varieties, all given the same cultural treatment, and "Yarrawa" continued in flower, holding its large size and phenomenal floriferousness for weeks after all other Sweet Peas had passed their best. The flowers are large of round waved Spencer form and colored bright rose pink with lighter pink wings.	15 1.00
Early Flowering Spencer Mixed.		15 .75

## Giant Spencer Sweet Peas.

### STANDARD VARIETIES AND NOVELTIES

Sweet Peas, gay and fragrant, are the most universally popular annual flowers cultivated. Inexpensive, easily and quickly grown from seed, thriving in town or country gardens, supplying an abundance of continuous bloom for months—an adornment to garden, house or corsage. Is it any wonder that they are "everybody's flowers," and have been for generations? A few years ago, a paragon type appeared in the famous gardens of Earl Spencer, Northamptonshire, England. This newcomer, extremely beautiful, the fairest, formed and largest Sweet Pea ever grown, was named "Countess Spencer" and from this has sprung the glorified modern race of "Giant Waved" "Spencer" or "Orchid-flowered" Sweet Peas.

The characteristics of the Spencer Sweet Peas, grown under congenial conditions are: robust growth, the plants attaining a height of from 6 to 10 feet, requiring for full development to be not less than 6 inches apart; a foot apart is better. The flowers are giants among Sweet Peas, measuring 2 to 2½ inches across. They are beautifully formed and daintily waved. Three and often four or five of these queenly blossoms are borne on long, strong stems.

	PRICE
Henderson's Packets of Named Sweet Peas	
contains 40 to 50 seeds	Pkt. Oz.
America Spencer. Striped and flaked brilliant carmine-red over white.	10 .50
Apple Blossom Spencer. Banner bright rose color; wings creamy-blush.	10 .50

## Giant Spencer Sweet Peas—Continued.

	PRICE
Henderson's Packets of Named Sweet Peas	Pkt. Oz.
contain 40 to 50 seeds	
Asta Ohn. Rosy-lavender; flowers large and well waved.	10 .50
Aurora Spencer. Strongly flaked and striped bright orange-rose on white; large waved flowers.	10 .50
Bertrand Deal. Large waved flowers of an exquisite pinkish-lilac suffused with soft rosaceous.	10 .50
Blanche Ferry. Rose pink, blush white wings.	10 .50
Captain of the Blues Spencer. Maroon purple.	10 .50
Blue Picotee. White, edged blue.	10 .50
Clara Curtis. The best primrose-yellow.	10 .50
Constance Hinton. Young flowers tinted pink but soon turn white.	10 .50
Countess Spencer. A re-selected, improved strain of this grand original "pink Spencer".	10 .50
Decorator. Bright coral rose suffused cerise and orange.	10 .50
Dobbies Cream. Cream yellow.	10 .50
Etta Dyke. A superior strain of "White Spencer," larger, whiter, and better frilled.	10 .50
Fiery Cross. Fiery orange-scarlet—fine large waved flowers that do not sunburn.	10 .50
Flora Norton Spencer. Beautiful azure or pale blue flowers.	10 .50
Florence Morse. Soft blush-pink flushed towards edge with deeper pink.	10 .50
George Herbert. Bright rosy-carmine.	10 .50
Helen Lewis. A very large and fine orange-rose; wings orange-salmon.	10 .50
Helen Pierce Spencer. A large, true waved Spencer; ground color, rippled and pencilled with bright blue.	10 .50
Hercules. Clear rose pink.	10 .50
Illuminator. A warm orange-rose self or light orange-scarlet.	10 .50
John Ingman. Rich carmine-rose, very large and fine waved form.	10 .50
King Edward Spencer. Rich crimson-scarlet.	10 .50
King Manoel. Deep maroon, purplish-maroon wings.	10 .50
King White. The best pure white.	10 .50
Lady Evelyn Eyre. Pale pink flushed salmon.	10 .50
Margaret Atlee. Salmon pink over a body color of cream which lights up the whole flower into exquisite beauty.	10 .50
Marie Corelli. Brilliant rose-red.	10 .50
Marks Tey. Rosy maroon, bluish-mauve wings.	10 .50
Martha Washington. Rose-pink with Tyrian rose edge.	10 .50
Maud Holmes. An unsurpassed "Sunproof" crimson.	10 .50
Mary Garden. Pinkish-salmon and apricot.	10 .50
Mrs. C. W. Breadmore. Cream-buff flushed and edged with deep rose.	10 .50
Mrs. Hugh Dickson. Cream pink.	10 .50
Mrs. Routzahn. A favorite "cream-pink;" a blending of straw color, tinted blush-pink and rosy-apricot.	10 .50
President. Glowing orange-scarlet.	10 .50
R. F. Felton. Lilac tinged French grey.	10 .50
Rosabelle. Bright rose, grand form and size.	10 .50
Royal Purple. The best purple variety.	10 .50
Senator Spencer. A large and fine striped; seal-brown and claret flakes on white.	10 .50
Sterling Stent. Rich deep salmon suffused with fiery orange.	10 .50
Vermillion. Brilliant scarlet.	10 .50
Wedgewood Blue. Silvery-blue, tinged mauve.	10 .50

## Henderson's Superior Blend of Mixed Giant Spencer Sweet Peas.

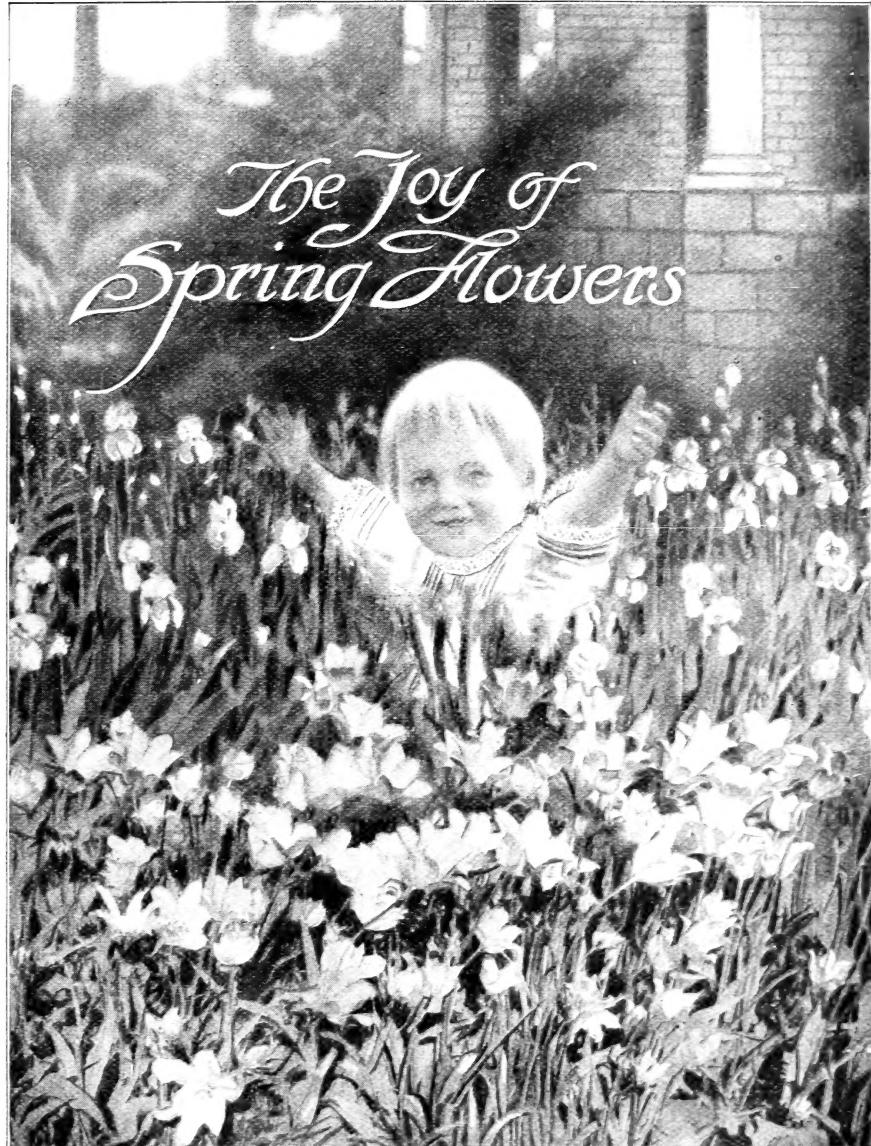
An unsurpassable mixture. Composed exclusively of Giant Waved Spencer varieties, blended in proper proportion of bright colors and including several new hybrids of exquisite colors and shades, many of which, when sufficiently tried up, will be introduced as new-named varieties.

Price, per pkts. (75 to 100 seeds), 10c.; three pkts., 25c. Per oz. (400 to 500 seeds), 30c.; per ¼ lb., 85c.; per lb., \$3.00 postpaid.

*“To know the Joy of Spring Flowers”*

PLANT HENDERSON'S IMPORTED BULBS  
THE COMING FALL

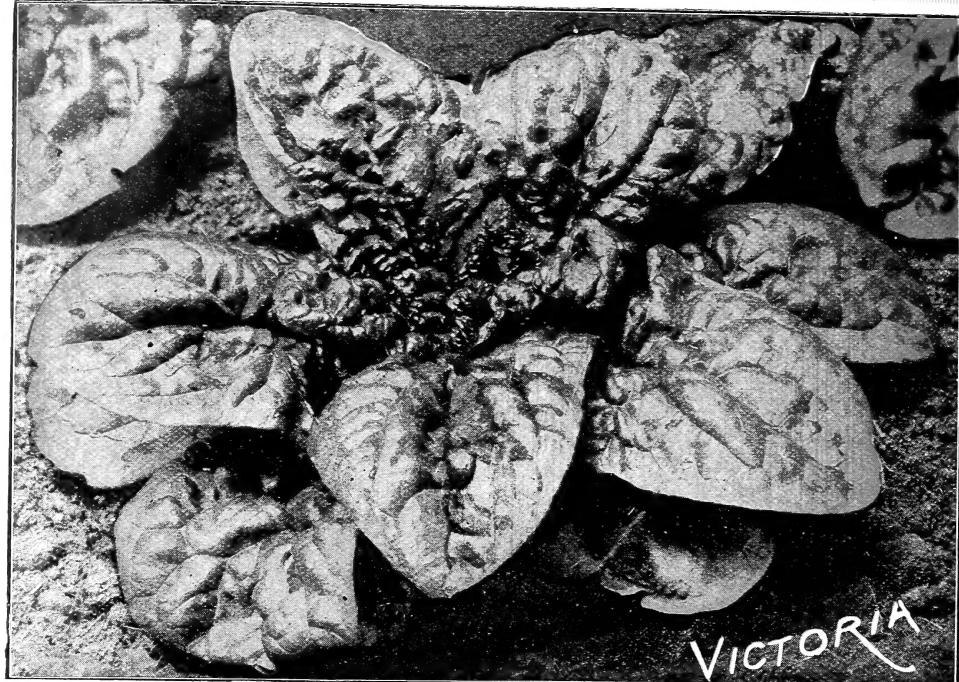
THE EARLIEST FLOWERS THAT BLOOM IN THE SPRING



ARE OBTAINED BY PLANTING BULBS IN THE FALL

HENDERSON'S CATALOGUE OF SPRING FLOWERING BULBS, printed in colors on superfine paper will be published and mailed to customers September 1st. If you do not receive a copy write for one. We send it free.

PETER HENDERSON & CO., 35 & 37 Cortlandt St., NEW YORK



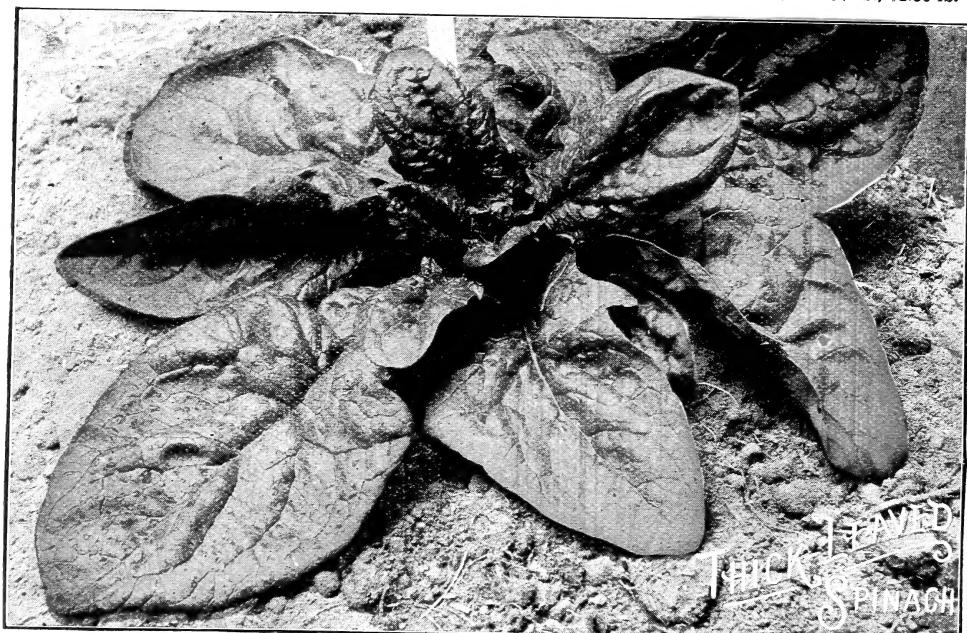
## SOW SPINACH FOR A FALL CROP

By repeated sowings this tasty and succulent vegetable may be enjoyed by everyone almost throughout the year. Besides the usual spring sowings, home gardeners should sow in July for fall use choosing HENDERSON'S THICK-LEAVED or the LONG STANDING varieties. Special attention should be paid to the August and September sowings, as they will supply the table during the coming winter and early next spring.

For these sowings use VICTORIA or HENDERSON'S THICK-LEAVED both excellent for the purpose.

VICTORIA SPINACH (see description page 5) 5c. pkt., 15c. oz., 45c.  $\frac{1}{4}$  lb., \$1.50 lb.

HENDERSON'S THICK-LEAVED SPINACH (see description page 5) 5c. pkt., 15c. oz., 45c.  $\frac{1}{4}$  lb., \$1.50 lb.



PETER HENDERSON & CO., 35 and 37 Cortlandt Street, NEW YORK